

RDMS DocID

00100839

RCRA RECORDS CENTER
FACILITY MACDERNO
I.D. NO. CADONIO 599
FILE LOC. R-13
OTHER DDMS# 100239

APPENDIX D

CT DEP Bureau of Water Management P-5 Files

HRP

Associates, Inc.

P- = File

STATE OF CONNECTICUT

DEPARTMENT OF ENVIRONMENTAL PROTECTION

INDUSTRIAL SURVEY

| WATER | COMPLIANCE/HAZA | RDOUS WASTE MANAG | SEMENT | | EPWC-9 NEW 1/83 |
|---|-----------------|--|---------------------------|---|--|
| COMPANY NAME | 1 / : - | TOWN | | DEP/WPC NO. | |
| FiberCite I | ndustries | Water 60 | " " | REC. STREAM WATE | RSHED |
| ADDRESS | **** | | | - | 2001 |
| ADDRESS 172 £ 57 PL MAILING ADDRESS . I SITTEREN FROM | irara St. | CHIEF OFFICIAL - TITLE | + Hondles | funt Engineering 1 Operations DUCTION 13 | 755-/344 |
| MAILING ADDRESS of sifterent from | location. | CONTACT TITLE KO | ch - Director Pl | lent Engineering | PHONE |
| | | John Zola | dy - Director e | oution DA | SA-ME SWORKED SHIFTS |
| | | EMP. | 25 | 13 | 1-6 1,10 hr. |
| DATE ESTABLISHED 4/ | 88 | | R. Langan | | 1/19/83 |
| | | | | |) Shipped in rolls |
| PROCESSES - Date Discha | | | | | |
| A Mixing | | | | | |
| B Impregnation | | | | | |
| C Drying & Cur | | | | | |
| D Research & De | welegment lab | | | | |
| TYPE OF WASTE (each pr | • | | | | |
| | , | up (vessels Flor | - esuspend) | | |
| B None | 7 | - A SHOOL TO SHOUL TO SHOOL TO SHOOL TO SHOOL TO SHOOL TO SHOUL TO | | | ······································ |
| | salvate 1- | a off into nor co | la tion continu | to income to | |
| • | _ | A CIT INIC AST CO. | recess system | 10 Manes | |
| D Waste solvent | Σ | | | | |
| | | | | | |
| NA/ATED LIE A CE | C-1 !: | HOW COMPLIED | | | DISCHARGED TO |
| WATER USAGE | Galsper-day | HOW COMPUTED | | | |
| Sanitary Sewage | 375 | 1 | es x 15 gpd | | Bovier Jayston/ |
| Industrial Waste | 2880 | Non-contact 10 | eling water from | m head roller | Storm system us |
| | 1040 | (pumps) | orising writer frag | - The maple stic. | Tank Rest drain |
| | ? minimal | Air system per | ticle & condensat | vent pipes (2 | Into zound. |
| Clean Discharge | | | | | |
| | | | | | 2 |
| Boiler Water | ? minimul | Potential Condens | | | your and |
| in Product | | 2 Safety value | • | | -)pipes grand |
| Unaccounted | | Actival boile | blenden- 15 (| lose looped. | |
| TOTAL | 4295 | <u> </u> | | | |
| WATER SOURCE(S) | ty Water | Add detail | s on well(s) | | · |
| SANITARY TREATMENT - | - wone | · · · · · · · · · · · · · · · · · · · | | | · · · · · · · · · · · · · · · · · · · |
| INDUSTRIAL TREATMENT | - Non- | | | | |
| SAMPLE(S) COLLECTED_ | None | LOCATION | | | |
| 5/COMMENTS A | cetone delivery | transfer pipe co | meetin is ever | red pipe hour | 1 42 extended into a dia |
| waste solvent conta | .) | | uns in floor est in | 1 . | town should be coulte |
| } | | on site which a | | | HRP or- treme .11 |
| installed due to | \mathcal{L} | . / | CONTRACTOR CONTRACTOR | - July Je was | J. 1. 18-11. 51 . 17 115E115 |
| 1125701100 (14 C) | 10-mes 11,00.1 | 4 . N = | | | |

STATE OF CONNECTICUT WATER RESOURCES COMMISSION

out of Business

n. 753-1150

| Name of company | Town | Wrzecury | Location on Map |
|------------------------------|----------------|---------------------|---------------------|
| 1 Taring 1 Taring 0 | | / | |
| Mailing Address | | Stream Teal brook | Watershed Mauchine |
| IMP E. Aurova | | act No Smale G | X7 |
| | Type | of Problem Serious | Routine Minor None |
| Date Established | 272 No. 6 | of Emp. | 8 17 55/12/12 |
| Date of Last Ex | Repor | rt by E. PizzaTo | Date 3-2/- 29 |
| Products 50 | onge Cv | Arpet Madecla, | |
| Processes A Cool | lina water | for ININS CHIMADA | Runkury Air Como |
| | | - cool Hiwished | |
| | | cooling line - | |
| T . | MOTAL F WATON | , | <u> </u> |
| Origin of Wastes | / | | |
| Wastes Contain A | | | |
| ВВ | | | |
| C | Heist Tran | ster oil. | |
| D | trocess o | 1 | |
| `amments Not Covered by | Above Data | boote lie Lessi C | in stadiovant |
| - Structure sold of which or | went moduled - | y by CONN WATER SI | ON EMPTER SANTATION |
| (D) residual oil | from Vinisher | d product runs ou | er expused to |
| STORM Sewen - V | Aviable flow. | | |
| Water Used For | San. Wastes | Industrial Wastes | Clean Water |
| Discharged To | Municipal | STorm Sewer | STorm Sewer |
| Water Usage | Gals-per-day | How Com | puted |
| Sanitary Sewage | 1,575 | 85 emp, x 15 9 pcd. | + 2 30 showers |
| Industrial Wastes | 4,000 | EsTimATe | |
| Clean Discharge | 69, 7.00 | Estimate - over | |
| Boiler Water | 2,160 | Estimate, formula. | - 150 hp. |
| In Product | | | |
| Unaccounted | 22,055 | make-up for AtB. | (TOTA - AT OThers, |
| | | | |
| Total Used | 119,253 | 1,192,500 fTs/qTr. | ÷10 |
| SANITARY TREATMENT - | Municipal | | |
| INDUSTRIAL TREATMENT - | 3 | | |
| File Data Available: | | | |
| | 3111 - TE e | mina 3-1-74 1,1 | 192,500 cu. FT. |
| NOTE: COM JANY | | problem - nil re | ^ |
| V / | selles | | |
| | | 5 C | 7 (, ; |

STATE OF CONNECTICUT WATER RESOURCES COMMISSION

out of Business

ph. 1753-1159

| Name of company | Town | Wrercury | Location on Map |
|------------------------|---------------|---------------------|---------------------------------------|
| <u> </u> | 4 Acron Ville | • | |
| Mailing Address | | Stream Tean broas | Watershed Maucain |
| IMP E. Purovo | | ict in Carton G | |
| · | Type | of Problem Serious | Routine Minor None |
| Date Established | 272 No. c | of Emp. | 8 17 55/18/12 |
| Date of Last Ex. | Repor | et by E. PizzuTo | Date 3-21-74 |
| Products 50 | onge Cx | Wisham Today | / |
| Processes A Coo | I'ma water | PON INILLS CHIMAREN | - Runkury Air Come |
| | | - cool Finished | |
| c Pu | no zam | cooline line - | flow Through |
| | MICTA + Van | } | · · · · · · · · · · · · · · · · · · · |
| Origin of Wastes | · | | |
| Wastes Contain A | | · . | |
| В | | | |
| C | Heat Trans | ster oil. | |
| D | tracess o | | |
| Comments Not Covered b | y Above Data | Queek oil stored | in sommer or une |
| | | y by JOHN METERS | |
| | | yo ener techora d | |
| storm Sewer - v | aviable flow. | | |
| Water Used For | San. Wastes | Industrial Wastes | Clean Water |
| Discharged To | Municipal | Storm Sewer | STorm Sewer |
| Water Usage | Gals-per-day | How Com | puted |
| | } | 85 cmp, x 15 gpcd. | |
| Industrial Wastes | 4,000 | Estimate | |
| Clean Discharge | 69, 200 | Estimate - over | |
| Boiler Water | 2,160 | Estimate, formula | - 150 hp. |
| In Product | | | · |
| Unaccounted | 22,065 | MAKE-up for At3. | (Tota - 20 others) |
| | | | - |
| Total Used | 119,250 | 1,192,500 fts/gtr. | ÷10 |
| SANTTARY TREATMENT - | Municipal | | |
| INDUSTRIAL TREATMENT - | | | |
| ile Data Available: | | • | |
| | 2111 - TE 2 | min 3-1-74 1, | 192,500 cu. FT. |
| | | proflem - sil n | |
| | | on 1004 de | |
| | | wishe you "Tox | |

STATE OF CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION

INDUSTRIAL SURVEY

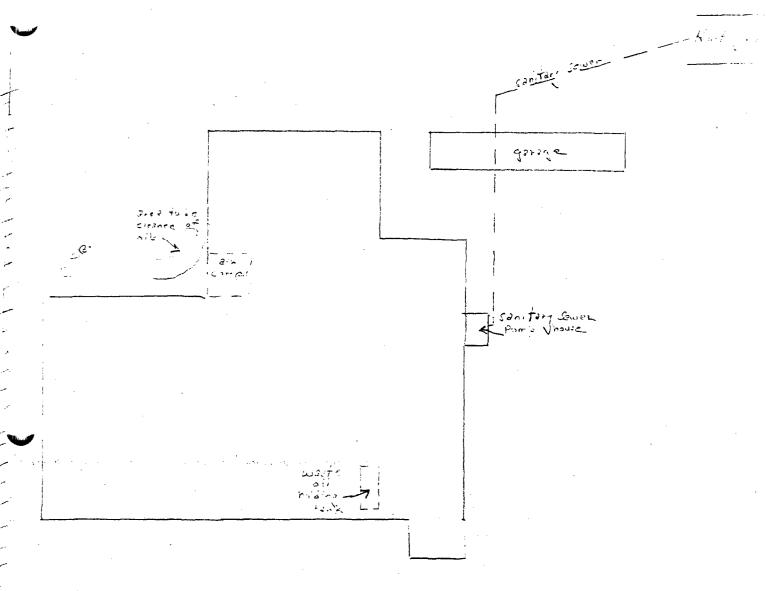
| WATER | COMPLIANCE/HAZA | RDOUS WASTE MANAGEMENT | EPWC-9 NEW 1/83 |
|--------------------------------------|------------------|---------------------------------|---|
| COMPANY NAME | - | TOWN | DEP/WPC NO. 161 - 2222 |
| U.S. Prolam = | | Waterbury | REC. STREAM WATERSHED |
| DORESS East a | arcra St. | CHIEF OFFICIAL - TITLE | PHONE |
| MAILING ADDRESS of different from i | | | PHONE PHONE |
| MAILING ADDRESS (if different from I | ocaron) | | |
| | | NO. of TOTAL PRO | U.P. 755-1344 DUCTION DAYS WORKED SHIFTS |
| <u> </u> | 73 | | 5 87034hr |
| DATE ESTABLISHED Cy | Maral > 1955 | REPORTED BY: TErry BEau | lieu DATE 10-7-86 |
| _ | v | loard Laminates | |
| PROCESSES - Date Discha | | | |
| A Miring (Resi | | 6 Trimes in | |
| B Treating (Imp | | | est arount board for Q.C. |
| c Cathing | 3 | | |
| c Cutting D Turninating | Beere Entre Cont | 1956 Gillate Buffe | r(much we) |
| TYPE OF WASTE (each pro | ocess) | 9:014:015 | · |
| A Solvent Cace | | (| - Stap (18014) |
| | | E. Copp. | the all metals (Go (1) |
| B Glass Fabric to | aumpsietynic | - water Frisher | witer with spent etching (Ferricalbase |
| C Scrap | | . (. 4 | 4 4 1 1 1 1 |
| D Non-contact coo | ling water | | twiter dish to a 13'x12'x1co |
| | | holding Pitin | Bldg. Pumped out. AL brains |
| | | Shidge 4 | enterowely by EUR-WiBu |
| WATER USAGE | Galsper-day | HOW COMPUTED | DISCHARGED TO |
| Sanitary Sewage | 1560 | 104 Emp x 159 pd = 156 | O Cty Sever |
| Industrial Waste | | 7 | , v |
| Clean Disch | | air conditioning to cooling | touer No Disch |
| clean Disch | | Laminating press (HONLON | tact Solid popular Place SCB-River |
| Clean Discharge | | Coding rells water from impre | quating machine CB = River |
| | | SCC N. tool | |
| Boiler Water 150 ths | TERMOTES SUFE | | in winter. Catch Busines |
| In Product | * | | |
| Unaccounted | | | |
| TOTAL | 69,460 | | |
| WATER SOURCE(S) (TT | ou Water Col | 3-30-96 HATE | 7/65- |
| SANITARY TREATMENT — | 616 | | 110 21) 110 |
| | Many | | 10,00 |
| INDUSTRIAL TREATMENT | | LOCATION O C. 1 = ± c. 1 | 2 10 == 10 |
| SAMPLE(S) COLLECTED | | LOCATION DYE + ESTEL SCIMP IN F | |
| ES/COMMENTS Ha | 1 | | apperluhenthey operated in Stamford |
| 1.0 | | Solviam morder to | bring them into compliance |
| Condensate | | HEL NEHT PRIMS bLESSALE 4. | |
| of Bilda " | DELINE hat we | ter to the ground which m | akes its way to a Hearby Catchin |

| EPWC-9 NEW 1:83 (Back) | | WASTE PROFILE * | | |
|---|--|---|------------------------------------|---|
| TYPE OF WASTE | Amount/Frequency gals, lbs.,/wk, mo., yr. | On-Site Storage Less than 90 days (1) More than 90 days (2) drums, tanks etc. | Transporter | OFF-SITE Hazardous Waste Facility Licensed ? |
| Metal Contain | 15 gold month | (1) | EWR | Pending |
| - CECHNOSC. | | () | | |
| Juli Cintis | ing Syd June | Z (1) | | |
| Regides | le a lad butch: | 360 guls, cq.) (1) | <u> </u> | |
| 20 yals- | Convin Arlis | 360 gals, eq.) (1) - 1985 - | * list of ahour | culs used by Lea enclared. |
| | | | | |
| Has this firm notified EF IF YES as a-Generator: | PA (under RCRA) ? NO | YESYES | _ ID Number <u>CTF /</u> *TS | 00006069 DF: |
| Attach copy of Notific) TYPE OF WASTE | | PROFILE prior to Nov. 11, 198 | 80 (off-site disposal) Transporter | Off-Site Location |
| | | | | |
| | osal): TICS: | ndicate type of waste, amour | ES COLLECTED SCHEDE | n-site disposal was used. (Specify and |
| | Oleand out XI At days end. Discharge go somitary der | 1) Sign tundes or 2) Cleaner tunder es to the me (pinous). | - Lyi - Legn | a Brite area (Cleams) (550gal trake) in -brite - 10 (550gal) in - Clean - 1 (550gal) |
| | * See breakdom | - of "Arms of Water Discharge | "gnelosed. | • |

STATE OF CONNECTICUT WATER RESOURCES COMMISSION

<u>___</u>

| Name of company | Town | - عار' | Gi (); | Loca | tion on Map | 103 |
|---|---------------------|----------------|--|--|----------------|-------------------------------|
| Floured Factor Co | i | Lage | | | • | |
| Mailing Address | | . Stream | | | Watershed // | to a to the second |
| PO. FOX RIGE (172 E. Ruhor | Con | tact fa | Lian itech | | Manager | |
| water 06750 | Type | e of Prol | olem Ser | rious Ro | utine Mi | nor None |
| Date Established June | 1067 No. | of Emp. | 90 | /5 | <i>7</i> ⊌⁻ | 50 000 |
| Date of Last Ex. | Rep | | | | Date //- | |
| Products metal cr | Emping | | | | | |
| Processes A stant | | | | | | |
| B <u>@ 20 k</u> | ets (neopie | ne) | | · · · · · · · · · · · · · · · · · · · | | |
| C dryin | - 6 | | | · · · · · · · · · · · · · · · · · · · | | |
| D / | <u> </u> | <u></u> | | | | |
| Origin of Wastes | | | | | | |
| Wastes Contain A w | WELL COMES CO | -7-7:0 | TON PARTY W | 570x - 1. 1 | 8 6 6 | |
| В | | | | | | |
| | | ·· | | | | |
| D_ | | | | | | |
| Comments Not Covered by | Above Data 🗡 | 1415700 C | aluste oil | <u>(* </u> | ATTION - TO M | Tree c |
| Des 1 to 4 5 44 76 | <u> </u> | <u> </u> | | · · | 6 % ; | - |
| and collection and Je | 000 <u>522 1</u> 27 | 702 5000 | 100 16 | TENE | . Compress | |
| | | | | | | |
| Water Used For | San. Wastes | In | dustrial W | astes | Clean Wa | iter |
| Discharged To | sewch | * | | | | |
| Water Usage | Gals-per-da | у | | How Comput | ed | |
| Sanitary Sewage | 1850 | 90 a | in n. X/5 = | Free = 15 | TO JAN | |
| Industrial Wastes | | 10 m | nines of the | ter solvein all | STATE WANTE & | cos och / yern. Ro och ver |
| Clean Discharge | | h | and the second s | | O LITORY | |
| Boiler Water | | | · | | <u> </u> | |
| In Product | <u> </u> | | | | | |
| Unaccounted | | | | | | |
| | | | | | | |
| Total Used | | 1000 | . incluie | | For Flective C | 5. 1º. 500 a. 7 |
| | 1.880 | | | | | • • |
| | * | | | | | , |
| SANITARY TREATMENT - | principal si | | | | | |
| SANITARY TREATMENT - INDUSTRIAL TREATMENT - | principal si | | | | | |
| SANITARY TREATMENT - INDUSTRIAL TREATMENT - | dere | Tarre | | Contract Con | | c.tr. |
| SANITARY TREATMENT - INDUSTRIAL TREATMENT - | dere | Tarre | | Contract Con | | otr. |
| SANITARY TREATMENT - INDUSTRIAL TREATMENT - | dere | Tarre | | Contract Con | | etr. |



STATE OF CONNECTICUT WATER RESOURCES COMMISSION

| Name of company Gayn | o F | Town | Water | 601- |] | Locati | ion on | Map | 101 | Ç |
|---|--|---------------|------------------|----------------------------|---------------------------------------|------------------|----------------|--------------|-------------|---------------------------------------|
| Florica Control | | Villa | | | | | | | | |
| Mailing Address | | | Stream | | | Wa | atershe | ed://a, | 19.5 | 5 / |
| 50. Fax 0125 (170 F. Au | 1018 St.) | Conta | ct the | G24001 - | Procioent | | | , | | |
| Gostoren 067 | / | | | olem S | | | tine | Mir | nor | None |
| Date Established June | | No. o | f Emp. | -رحی | 6 | | 49 | | / | |
| Date of Last Ex | | Repor | t by | P.W. | Genank | | Date | 11- | 69-1 | 72 |
| Products Flectios | witches | FOX 2" X2 | rliance | · industi | s. je | | | | | |
| Processes A here | h -100 2 | <u> 15. K</u> | torri | n= , 0 / 2 | 110- = 5 2 | بعر ، بین بسرے م | ly | | | |
| В | <u> </u> | | ` | × / | \tag{'} ' | | | | | |
| C | | | | | | | | | · | |
| D | | | | | | | | | | |
| Origin of Wastes | | | | | · | | مسطيعين مطالع | | | |
| Wastes Contain A | | | | | | | | | | |
| В | <u></u> | [0] | | | | | | | | |
| С | | <u> </u> | | | | | | | | |
| D | • | | | | | | | | | |
| Comments Not Covered b | y Above Da | ata | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | · | ··· | · · · · · · · · · · · · · · · · · · · | | - · | | | |
| Water Used For | San. Wa | astes | In | dustrial | Wastes | | Clear | n Wat | ter | |
| Discharged To | Sowe | | | | | | | | | |
| Water Usage | Gals-pe | er-dav | | | How Co | moute | d | | | |
| Sanitary Sewage | | <u></u> | معرود ودد | Consumption Canifornius | OFICTAL F | lower & | Faskat 6 | 54. 13 | رق ت رسع | 14. |
| Industrial Wastes | | <u> </u> | - Evaim | /, | e 1, 750 | -/c - | | <u> 210.</u> | USE - | |
| Clean Discharge | | -, | | | | | | | | |
| Boiler Water | | | | | | | | | | |
| In Product | | | | | | | | | | |
| Unaccounted | + | | <u> </u> | | | | | | | |
| onaccounted | | | | | | | | | | |
| Total Used | | | | o F Known | | | | | | |
| | | | | | | . 1 | | | | |
| SANITARY TREATMENT - INDUSTRIAL TREATMENT - | mus com | 1 Car Te | V. C. | <u> </u> | Troder. | 12/. | | | | |
| ~ile Data Available: | 1/01- | | | | | · | | | | ····· |
| | | | | | (10 -1 | | | | | |
| ITES: Charmety auto | Ch - I'hli | 741 F /60 | <u> </u> | <i>₹ 6 ℃ €</i> | (7-3) | | | | | · |
| | - | | | | | | | | | · · · · · · · · · · · · · · · · · · · |
| | | | | | | | | | | |
| | | | | | | | | | | |

STATE OF CONNECTICUT - Form 1064

| Name of Company SPERRY REA | 'U (C | R.P. | Town WATEA Village | | Locati | on on Ma | p 22 | |
|----------------------------|-------------|-------------|-----------------------|------------|-----------------|---------------|---------------------------------------|-------------|
| liner, on Fift. | <u> </u> | Ž 12. | Receiving Str | ream / | EEC Broine V | latershed | NAUGE | u E.K |
| Mailing Address | | | Contact Con | | | | | 1000 |
| 172 EAST AURO | RA. | 57. | Type of Probl | lem - | Serious, | Routine, | Minor, N | lone |
| Date Est. 🕴 🤃 | | | No. of Employ | rees | 300 | 75 | 225 | 1 |
| Date Last Exp. | | 1 | Report by | . AH | ERN |) De | te 4/10 | 162 |
| Products HAAA | . <u> /</u> | Chass | 1 2 77 8 3 | 1 1/2 | * # | 11 88 | 1 in straight | وتك و مسوعو |
| Processes | | | | | | | ŧ | |
| | В | ···· | | | | | | |
| | С | | | | | | | |
| | D | | | | | | | |
| Origin of Waste | | | | | | · | | |
| | | - N: | | | | | | |
| | | | | | | | | |
| Waste Contains | | | | | | | | |
| | A | | | | | | | |
| | В | | ····· | | | | | |
| | С | | | | | | | |
| | D | | | | | - | | |
| Water Used For | | Sanit | ary Wastes | Inc | lustrial | Wastes | | Water |
| Discharged To | | 2001 | wer. | | | | STREA | 177 |
| Water Usage | | s per di | | | puted | | · · · · · · · · · · · · · · · · · · · | |
| Sanitary Sewage | 75 | 00 | 500 | 0 X15 | | | | |
| Industrial Wast | | | | | | | | |
| Clean Discharge | 56 | 190 | | | u) = C. | | | |
| Boiler Water | | 900 | 2501 | 4.02 - | 1 6 FIRS | 5% | nabe-u | 12 |
| In Product | | | | | | | | |
| Unaccounted | | | 11:27 6 | 77 - | | | ** | |
| | | -390 | WATE | | WER 4 FT/9 | | | |
| Total Used | 63 | 390 | 6339 | 00 6 | 4 + 7 / 9 | UPIKEN | | |
| SANITARY TREATME | ENT - | STOR | M SEWE | 2 - | 57 E | EL BA | COCK | |
| INDUSTRIAL TREAT | | | | | | | | |
| | | | | | | | | |
| File Data Avails | ible | | | | | | | |
| NOTES: | | · <u> </u> | | | | | <u> </u> | |
| 10120. | | ·· | | | | | | |

0/7mg

STATE OF CONNECTICUT WATER RESOURCES COMMISSION

| Name of company | Town | WATELbury | Loca | ation on Map | 77 |
|-------------------------|----------------------|---------------------------|---------------------------------------|---|------------|
| Whomas Electronics | pla.T Villa | | | | |
| mailing Address | | Stream | | Watershed | |
| 150 E. Aurora 57 | Conta | et Phil Paulon | e - PIT. | ENJ. | |
| | | of Problem Ser | | | nor None |
| Date Established /99 | // No. o | f Emp. 350 | 125 | 275 | |
| Date of Last Ex. — | | t by E. Pizzulo | | | -20-74 |
| Products Elec | Tranic con | Du Ters | | | |
| | lectronic A | | | | |
| 1 | Iderin- | ′ | | • | · |
| C 2 | Ain Tins - | Dry FilTers | | · · · · · · · · · · · · · · · · · · · | |
| D () | serenser - | IN Trichloreth | 1100 - 1 | lubbard Ha | ill cham. |
| Origin of Wastes | V | | · · · · · · · · · · · · · · · · · · · | ······ | |
| Wastes Contain A | | | | -14-11" | |
| - B | vegethble. | oi/ | | | |
| | | · | · | | |
| p | studge fr | on 57111- 5 | olven T. | | |
| Comments Not Covered by | Above Data | (B +1) - 570, | ed in | 55 701 | drums |
| outside of | JINNT - knu | yed Awar Lo | ه دره درستر د | 6. m. 7 11/ | 6.11 |
| 4 winsty views | ·11 (B) ≈ Z | 50-300 gAllyr. | (e) ~ | 1,000 3 Al. /4 r. | |
| | | | | | |
| Water Used For | San. Wastes | Industrial Wa | stes | Clean Wa | ter |
| Discharged To | Municipal | Licenced waste | Huchen | STorm S | e water |
| Water Usage | Gals-per-day | | How Comput | ted | |
| Sanitary Sewage | 5,250 | 350 mp. | 15 April | 1: (25 - 3 | and I |
| Industrial Wastes | | Licens d wines | | • | |
| Clean Discharge | 1,000 3,500 | Nonventer STILL - STANTAN | oo gwilhr. | x_ 2 hrs | |
| Boiler Water | 2,700 | 180 X100 X 1500 | 75 + 70 = 78 | . در اد د | |
| In Product | | | | | |
| linaccounted | 6,740 | 21,190 - 14,4 | | | • |
| | 2,000 | Air Cond unp v | with the off | 30p7- 150 | Von |
| Total Used | 27,720 | 211,900 24.17./9 | 71. +10 | | |
| SANITARY TREATMENT - | MUNICIPA | NOTE - 7-1-75 - 2 K | line of the second | La lax | |
| INDUSTRIAL TREATMENT - | ı | eve. | · ·1 | est de la companya de | |
| ile Data Available: | | | • | | |
| | and the first of the | A CAR A SECUL | 211,900 | cu. 17 7/2 | 1 / Nel,74 |
| YOTE NO WO | | | | | |
| | man be he | • | | | |
| | | 570h - 2100 | 10 P | | n in mary |
| | 11.11.5 | | | | |

STATE OF CONNECTICUT WATER RESOURCES COMMISSION

| Name of company | Town | WEJERCITY | Location on Map 7/ |
|----------------------|---------------------------------------|---|--|
| 200 MA 10 | Villa | ge | |
| Mailing Address | Rec. | Stream (Tell Toll) | Watershed / Lotter to |
| Z. / E. Herors | | et San San | • |
| | Type | of Problem Serious | Routine Minor None |
| Date Established | 1957 No. 0 | of Emp. 5 | |
| Date of Last Ex. | ノラグミ Repor | t by F | Date 3-50-29 |
| Products Zado | CTREE FEET | FILE CONFIGURA | - MAINT |
| Processes A 👇 🖔 | With Market Co. | A CAN THE U.S. LAND | |
| B - × | borrows - A | TRINGE OF PIKTS | ~ solutions |
| C | · / | · | |
| D | | | |
| Origin of Wastes | | | |
| Wastes Contain A | | | |
| . В | | With the state of | Contract to William |
| С | | , | |
| D |) | | · |
| Comments Not Covered | by Above Data | P Myon The . M | 2 6 1 1 1 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 |
| Covered to | DY 1.DOVC DOCC | | |
| Water Used For | San. Wastes | Industrial Wastes | Clean Water |
| Discharged To | 1 2000 4 4 | | \(\color \color |
| Water Usage | Gals-per-day | ~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | omputed |
| Sanitary Sewage | 1.790 | 76 000 31 15 | 5 P 48 5 |
| Industrial Wastes | 6,000 | e-Trumwing | |
| Clean Discharge | z 1,6 | er Tomany - Dur | |
| Boiler Water | 3 02 y | 1.50 mp. + 50 i | R. B. C. March St. Commercial Com |
| In Product | 2 2 4 2 | | <u> </u> |
| Unaccounted | | | * |
| | | | |
| Total Used | | | of the of the second |
| SANTTARY TREATMENT - | | | |
| INDUSTRIAL TREATMENT | <u>- 1000 (1600)</u> | · · · · · · · · · · · · · · · · · · · | |
| ile Data Available: | · · · · · · · · · · · · · · · · · · · | | |
| | | es - Municipal + L | Well |
| well water = | 17 5 6 0 0 | | |
| | 1 C, 000 9 ppa. | | |
| City of Waterbure | | = more ending to | 21.14 - 621600 fi |

STATE OF CONNECTICUT - Form 1064

| ame of Company |) | Town WA7 | ER BUKY Loc | ation on M | (ap 7/ | |
|--------------------------------|-------------|---------------|---------------------------------------|-------------|---|--------------|
| | | Receiving | Stream | Watershe | 1/1920,276 1816. | 10 K 1000 |
| Ailing Address | | Contact | | | | |
| 737 ERST AUR | ORA ST | Type of P | roblem - Seriou | s, Routine | Minor, Nor | 10 |
| ate Est. | | No. of Em | oloyees | S 41 | | 1- 00 |
| ate Last Exp. / S | / * · | Report by | 1. PHERN | | ate 6/10/6 | 2 |
| | | E PEARLS | ک ساز ایمک | | | |
| rocesses | A IV | | | | | |
| ···· | BIFER | | | | | |
| | C CAFF | , e.c. | | | | |
| | D | | | | | |
| rigin of Waste | | | · · · · · · · · · · · · · · · · · · · | | | |
| | | | | | | |
| | <u>C</u> | | | | | |
| Vaste Contains | | | | | | |
| | A | | | | | |
| | <u>B</u> | | · | | · · · · · · · · · · · · · · · · · · · | |
| | C | | | | | |
| | D | | | | Class U | · · · · · · |
| Water Used For | | nitary Wastes | Industria 57% ERM | | Clean W | |
| Discharged To | | | | | | |
| Water Usage Sanitary Sewage | Gals per | | How Computed | | | |
| Industrial Wast | | | 155+BW+C4 | رسان جي تال | | |
| Clean Discharge | | 10 | 9 EM - 8 h | | · · · · · · · · · · · · · · · · · · · | |
| Boiler Water | 4116 | | 35 HP 8hR | | make | |
| In Product | _ | Ne | | <u> </u> | | |
| Unaccounted | | | (| | V - V - V - V - V - V - V - V - V - V - | |
| | | | | | | |
| Total Used | 20,45 | y 103 | 900CHFT+1 | 00,080 | CM FT/9V | FIX. |
| SANITARY TREATME | No. | MUNICI | PAL SEW | T R | | |
| INDUSTRIAL TREAT | | | | | | |
| I.DOCI.LIAD I.MAI | · miri | <u>~</u> | | <u> </u> | | - |
| | | | | | | |
| File Data Amaile | hla | | | | | |
| File Data Avails | ble | | | | | |

Lord

STATE OF CONNECTICUT

P-5 UPDATED 4/14/81 ORIGINAL -3/24/15 DEPARTMENT OF ENVIRONMENTAL PROTECTION WATER COMPLIANCE/HAZARDOUS WASTE MANAGEMENT

INDUSTRIAL SURVEY

EPWC-9 NEW 1/83

| ITA MANUTAN | A C | | | | | |
|--|--|--|--|-------------------------|-------------|---|
| EN PHOUPHE | TURING CO. | WATERBURY | | 151- | 071 | |
| <u> </u> | | VILLAGE | | REC. STREAM WAT | TERSHED | |
| 237 EAST AUA | LOKA ST. | CHIEF OFFICIAL - TITLE WILLIAM MILLM CONTACT - TITLE | AN - PRESID | ENT | PHONE 574-6 | 780 |
| MAILING ADDRESS of different from | | 1 | | | PHONE | |
| • | | RICHARD J. HE | PRODUCTION | N 13 316 C3 D | 753 - 5 | SHIFTS |
| · | | EMP. 75 | 25 2 | | | |
| DATE ESTABLISHED 196 | .4 | REPORTED BY: E. SAM | NEER | DATE L | 1/14/87 | |
| PRODUCTS INDUSTR | VAL ABRAISING U | COMPULNOS, PAINT ST | RIPPER. | | | • |
| PROCESSES - Date Discho | arge Established (each | n process) | | | | |
| A LICOMO BUFFING | Componno . Pir | NSING + COOLING | | | | |
| B LABORATERY - ANALY | SIS OF PLATING SOLL | CTICA'S | | ··· | | |
| C CLUMNERS MANNI | THETURE U. | | | | | |
| D CHEMICAL BRIGHT | NETIS | | | | ··· | |
| TYPE OF WASTE (each p | rocess) | | | | | |
| A DYE SOME FATTY AC | 105 TALLOW + WATEX | , | | | | |
| , | | 12 20, Cr, So + PAINT SELVENT | | | | · · · = · · · · · · · · · · · · · · · · |
| C DETERLIENT WASTES | | | | | | |
| 9 Brit 300 cyclos | ods OT Chimsel t | are Collection in eaching tor | reclaimetion -> | LWE | | |
| MATER USAGE | Galsper-day | HOW COMPUTED | reclamation -> | LWE | | DISCHARGED TO |
| WATER USAGE | Galsper-day | HOW COMPUTED | | LWF | | DISCHARGED TO |
| 7 | Galsper-day | | | LWF | | |
| WATER USAGE Sanitary Sewage | Galsper-day | HOW COMPUTED | | CWF | | |
| WATER USAGE Sanitary Sewage | Galsper-day | HOW COMPUTED | | CWF | | |
| WATER USAGE Sanitary Sewage | Galsper-day | HOW COMPUTED 75 employees x 15 gpd: | = 1,125 gpd. | 2 300 L WH | 5 | teste Bierk- |
| WATER USAGE Sanitary Sewage Industrial Waste (ناکاد الاثنام) Clean Discharge | Galsper-day 1,125 6,000 (3/24) 25,000 | HOW COMPUTED 75 employees x 15 gpd: | = 1,125 gpd- | 2 300 L WH | 5 | min Serve |
| WATER USAGE Sanitary Sewage Industrial Waste | Galsper-day 1,125 6,000 (3/2) 25,000 | HOW COMPUTED 75 emplyus x 15 ypd: Water Bill - | = 1,125 gpd. 7// H Cuft. { 740 H Cuft. | 2 3rd+ 4th 4th 1986. | 5 | teste Bierk- |
| WATER USAGE Sanitary Sewage Industrial Waste (Water Water) Clean Discharge PROCESS RINSC | Galsper-day 1,125 6,077 (3/20) 25,000 1,800 2,000 | HOW COMPUTED 75 emplyus x 15 ypd: Water Bill - | = 1,125 gpd- | 2 3rd+ 4th 4th 1986. | 5 | teste Bierk- |
| WATER USAGE Sanitary Sewage Industrial Waste (Water Water) Clean Discharge PROCESS RANSET Boiler Water | Galsper-day 1,125 6,000 (3/24) 25,000 1,800 2,000 2,000 | HOW COMPUTED 75 emplyus x 15 ypd: Water Bill - | = 1,125 gpd. 7// H Cuft. { 740 H Cuft. | 2 3rd+ 4th 4th 1986. | 5 | teste Bierk- |
| WATER USAGE Sanitary Sewage Industrial Waste (Wake Water) Clean Discharge Placess funsa Boiler Water In Product | Galsper-day 1,125 6,000 (3/20) 25,000 4,800 2,000 2,000 32,136 (ddf-5) | HOW COMPUTED 75 emplyus x 15 ypd: Water Bill - | = 1,125 gpd. 7// H Cuft. { 740 H Cuft. | 2 3rd+ 4th 4th 1986. | 5 | teste Bierk- |
| WATER USAGE Sanitary Sewage Industrial Waste (Well With) Clean Discharge Places pinsa Boiler Water In Product Unaccounted | Galsper-day 1,125 6,000 (3/24) 25,000 1,800 2,000 2,000 | HOW COMPUTED 75 anyliques x 15 ypd: Water Bell - | = 1,125 gpd. 7// H Cuft. { 740 H Cuft ve = 72,550 g | 2 300+ 4th 9to 1986. | S | tecte Bicek - ophistim for |
| WATER USAGE Sanitary Sewage Industrial Waste (Water Water) Clean Discharge PROCESS RINSC Boiler Water In Product Unaccounted | Galsper-day 1,125 6,000 (3/20) 25,000 1,800 2,000 2,000 32,156 (648-5) 70,061 | HOW COMPUTED 75 emplyus x 15 ypd: Water Bill - | = 1,125 gpd. 7// H Cuft. { 740 H Cuft ve = 72,550 g | 2 300+ 4th 9to 1986. | S | tecte Bicek - ophistim for |
| WATER USAGE Sanitary Sewage Industrial Waste (Wall Water) Clean Discharge PROCESS PARSE Boiler Water In Product Unaccounted TOTAL WATER SOURCE(S) SANITARY TREATMENT — | Galsper-day 1,125 6,000 (3/20) 25,000 1,800 2,000 2,000 32,156 (ddf-5) 70,061 | HOW COMPUTED 75 anyliques x 15 ypd: Water Bell - | = 1,125 gpd. 7// H Cuft. { 740 H Cuft ve = 72,550 g | 2 300+ 4th 9to 1986. | S | tecte Bivek - ophistinger |
| WATER USAGE Sanitary Sewage Industrial Waste (Water Water) Clean Discharge PROCESS PARSE Boiler Water In Product Unaccounted TOTAL WATER SOURCE(S) SANITARY TREATMENT— INDUSTRIAL TREATMENT | Galsper-day 1,125 6,000 (3/20) 25,000 1,800 2,000 2,000 32,156 (ddf-5) 70,061 - Municipal | HOW COMPUTED 75 anyliques x 15 ypd: Water Bell - | = 1,125 gpd. 7// H Cuft. { 740 H Cuft ve = 72,550 g | 2 300+ 4th 9to 1986. | S | tecte Bicek - ophistim for |
| WATER USAGE Sanitary Sewage Industrial Waste (Water Water) Clean Discharge PROCESS RINSC Boiler Water In Product Unaccounted TOTAL WATER SOURCE(S) SANITARY TREATMENT INDUSTRIAL TREATMENT | Galsper-day 1,125 6,000 (3/20) 25,000 1,800 2,000 2,000 32,156 (ddf-5) 70,061 - Municipal | HOW COMPUTED 75 amplying x 15 gpd: Water Bull Add details on we | = 1,125 gpd. 7// H Cuft. { 740 H Cuft ve = 72,550 g | 2 300+ 4th 9to 1986. | S | tecte Bicek - ophistim for |
| WATER USAGE Sanitary Sewage Industrial Waste (Water Water) Clean Discharge PROCESS PARSE Boiler Water In Product Unaccounted TOTAL WATER SOURCE(S) SANITARY TREATMENT— INDUSTRIAL TREATMENT | Galsper-day 1,125 6,000 (3/20) 25,000 1,800 2,000 2,000 32,156 (ddf-5) 70,061 - Municipal | HOW COMPUTED 75 amplying x 15 gpd: Water Bull Add details on we | = 1,125 gpd. 7// H Cuft. { 740 H Cuft ve = 72,550 g | 2 300+ 4th 9to 1986. | S | tecte Bicek - ophistim for |

STATE OF CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION .

| Name of company | Town | MARTON RUCK | ocation on Map Co |
|-------------------------|--------------------|--|--|
| MATERIAL TO HAR YO | Villag | ge . | |
| ✓ailing Address | | stream 7 | Watershed new Took |
| E. T. Huyara II. | 1 | t i si s | • |
| | Type o | of Problem Serious | Routine Minor None |
| Date Established 7 /70 | | | 31 70/20/12 |
| Date of Last Ex. | Report | by E. PizzoTo | Date /- 2/- 29 |
| Products Flat coi | led clock B | rus Nickle - Hours | - Bronze. |
| Processes A Contin | * . | | |
| B Rolling | 2 | E. Clentino | |
| C knnev | Iline | 3. Prote Steven | er - bund o |
| | 7 y 2 | | |
| Origin of Wastes | .· | | |
| Wastes Contain A | | | |
| В | 1 Level Bearing | Punt | |
| C | | | |
| D | | | |
| Comments Not Covered by | Above Data | $\mathcal{L}^{\mathcal{L}} = \{ \{ \}_{1 \leq i \leq n} \in \mathcal{L} \} $ | ST SYNON OF ALTON |
| servalling stiller las | is to store | A STATE OF THE STA | Was de la participa de la companya della companya della companya de la companya della companya d |
| | | | , |
| | | | |
| Water Used For | San. Wastes | Industrial Wastes | Clean Water |
| Discharged To | | STYLL | |
| Water Usage | Gals-per-day | How Con | nouted |
| Sanitary Sewage | | 120 W X / Saped, + | Reading X 100 . A Charles |
| Industrial Wastes | | | |
| Clean Discharge | | | |
| Boiler Water | | The same has a same | У. : |
| In Product | | | • |
| Unaccounted | | | |
| | | | |
| Total Used | 1,769 | 12.682 64.47, 1570 | |
| SANITARY TREATMENT - | June 10 1 - 1 | | |
| INDUSTRIAL TREATMENT - | * | | |
| ile Data Available: | | | |
| NOTES: City water | <u> </u> | 128 14 / 18 4001 | w weker-up only |
| 17,692 CU. PT. INC | 7' =7 | | |
| All while or | ¥* / | KKEE Francis | est house |
| | | | |

| Name of Company | | Town WATER Village | Location on N | Man 27 |
|------------------------|-------------------|---------------------------------------|-------------------------------|--------------|
| ROLLING A | r Malels Jive. | | STEELS ream BKOCK Watershe | • |
| failing Address | CITE EL STREET | | 9N KRRWIN-PLF. | |
| EAST AUXO | RA ST | | lem - Serious Routine | |
| ······ | 203 | No. of Employ | 1/00 | Minor, Nône |
| Date Last Exp. | | Report by | 1000 | Date 6/10/62 |
| | ING. ROLLI. | | , SILVER, BRASS, P | |
| Processes | A CASTII | | | |
| | BROLLIN | | | |
| | C PICKLIN | 10 | | |
| | DANNEA | LING | ···· | |
| Origin of Waste | | · · · · · · · · · · · · · · · · · · · | | |
| | | | | |
| | | | | |
| Waste Contains | | | | |
| | | RIC ACID | | |
| | | | F) PHOSPHOR | |
| | C NICKEL | | · | |
| | DCOPPER | | | |
| Water Used For | | tary Wastes | Industrial Wastes | Clean Water |
| Discharged To | > <i>TK</i> / | EAM (U) | STREAM (U) | STREAM |
| Water Usage | Gals per d | | low Computed | |
| Sanitary Sewage | | | 1 X / 5 | , |
| Industrial Wast | | | TOTAL (CONTACT) | |
| Clean Discharge | 300 | 1504 | 101 AL ((ON) 14CT) | |
| Boiler Water | 300 | 15070 | ~ - 7011 K3 C 3 70 M1K3 | 100.015 |
| In Product Unaccounted | | | | |
| unaccounted | | | | |
| Total Used | 120,000 | 250 | CPM-8HRS (CO | NTRCT) |
| CANTO ADV MODEL ON | C 70 | PA SEW | | |
| DANTIARI IREAIM | | | <u> ER -2 STEEL)</u> Prok | 3740072 |
| יאקקי זאדבייפוזהעד | IMENI / | | | ··· |
| INDUSTRIAL TREAT | | | | |
| | | | | |
| File Data Avails | able | THOH SED | PINGENT PUTS F | TAKET |

STATE OF CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION

· ph. 751-215

| Name of company | Town | In/ATOR JOHN I | Location on Map.027 |
|---|--|---|-----------------------------|
| 1 July 1 Rolling 1 | Villa | ige | |
| Mailing Address | Rec. | Stream Steel brook | Watershed MANGETOCK |
| | Conta | ict Ar Paulyana | · Pit. Erg. |
| | Туре | of Problem Serious | Routine Minor None |
| Date Established 13 | No. c | of Emp. 120 89 | 2/ 10/20/10 |
| Date of Last Ex. | Repor | of Problem Serious of Emp. 170 89 of by E. Pizzallo | Date /- 2/-24 |
| Products | Brass, Nickla | silve + Bronze. | flat coiled stock |
| Processes A R. | <u>illing</u> | E. Blanking G. Part pspheric N. H. Pi | |
| В см | stingcool | Jour G. PANT | To Clepner - Browlin SovenT |
| · C 1415 | noulling - DTm. | ospheric N. H. Pi | ckling |
| D +1: | T;wn | | |
| Origin of Wastes | | | A |
| Wastes Contain A | River water, of | 1 H NiTrict Su | ituric Acid. |
| В | | | |
| <u> </u> | | | |
| D_ | | | • |
| Comments Not Covered b | y Above Data | | |
| With Rewied. | stored in War | سند. رومواده روک بایدتور فاهدا - سروف | |
| H sTrip pickling | line - rinse | goe: To pond, Di un stiern from pond. | ip Tanks - rinse |
| goes To Vive | r - outtall dou | UNSTERM From pond. | |
| | | Industrial Wastes | \ |
| Discharged To | Municipal. | Strewn | STRAM |
| Water Usage | Gals-per-day | How Com | outed |
| Sanitary Sewage | 1,920 | 120 emp × 1500cd | + 12 Thomas a so and. |
| Industrial Wastes | | TAKEN From STEELE Broom | k - NOT METZ-Red. |
| Clean Discharge | | | |
| Boiler Water | | 3 x 100 hp. /Apr | ox.) |
| In Product | | | |
| Unaccounted | | | |
| | | | |
| Total Used | 1769 | 17,692 20,600 710 | |
| SANITARY TREATMENT - | Municipal | | Industrial WASTE. |
| INDUSTRIAL TREATMENT - | NONE | | |
| e Data Available: | · · · · · · · · · · · · · · · · · · · | | |
| NOTES: | | AU2.V. | |
| CITY WATER | in in the same | A Kin wilces + cooling make | co (1) |
| Water | 17 497 842 3 | FT- 1 11-7 572V | Municipa / |
| $A \cup A \cup A = A \cup $ | $e^{-\epsilon} = O(\epsilon) - \epsilon$ | Taken Park | 1 |

Date: March 16, 2001 Rev. No. 0

APPENDIX H 1998 UST FACILITY NOTIFICATION FORM

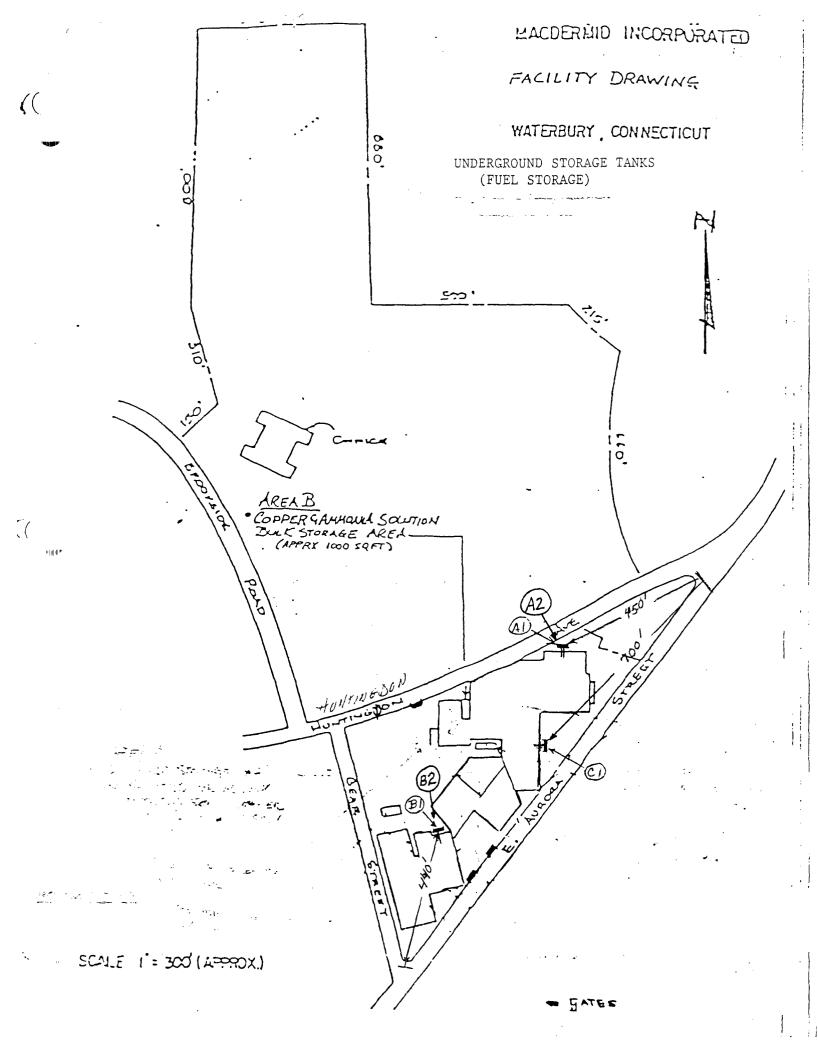
e\rdm\mac\mac-0036-ca-aocs

HRP

Associates, Inc.

| £ | | | | | | | | | | | | | | | i | 38.8° | | | | | |
|--|--|----------------|--------------------|--------------------------------------|----------------------------|--|------------------|---------------------------------|--|-----------------|---------------------------------------|-----|--------|--------|----------|-------|------------|------------|--|---|---|
| A DATE BLITERED | O SE RECEIVED ODES FACILITY MEET NEW REQUIREMENTS? NO | LONGITUDE | 03 225 | E | in the second | | 275, 5700 | 19 FAILURE DETERMINATION | CONDUCTED? (II "YES", enter "DATE" and attach results) (If "NO", enter "NO") | NO | 1 | | No | No | No | | No | No | | 22d OFFICIAL TITLE (c) owner or authorized representative). | Reg. Affairs |
| - | C FEE FACILITY WEET N | l ti | 96 73 | TELEPH (*) | TELEPHONE | ļ , | TELEPHONE | 18 | MONITORING SYSTEM (Specify Type from list B) | , , | ם | *** | Ω | Ω | p | • | ï | ï | 22b DATE SIGNED 9/1/98 | FICIAL TITLE 101 0 | of |
| FOR STATE AGENCY USE ONLY | FEE BILLED | LATITUDE | 34 - | CODE | CODE | | ZIP CODE | 17 INTEGRAL PIPING SYSTEM | DATE OF INSTALLATION OR REPLACEMENT (Mo.Yr.) | 5/75 | 09/2 | | 1959 | 1963 | 1978 | | 88/6 | 9/88 | 22b DA | 22d OF | Manager |
| | in l | က | 7 | STATE ZIF | STATE ZIP CODE | ļ | 17 | PIPING | PHOTECTION (See List B) | I | ≥ | | 皿 | ជ | ≖ | | 3 | 3 | | | |
| .94 | DINATE | STATE | ដ | ST. | STS | - | STATE E | 3 | List B) CONSTRUCTION MATERIAL (See List A) | က | 7 | | 7 | 7 | 7 | 14. 1 | _ | 7 | 1 1 | | guo |
| . Hev 5/94 | GRID COORDINATES | | | | | | | NAC | OTHER. | I | ш | | # | Ħ | Ħ | | | | 1 | | Strong |
| ĘPHM⋅6 | 0 GR | | | | | | | ION b. EXTERNAL | CATHODIC PROTECTION | | | | | | | | × | × | | NAME (Type or Print) | |
| | trá | _ | È | ~ | 7 | | - | F | COATED/ | | | | | | | | | | S-SNATURE | AE (Type | Gregory |
| | , Q | CITY OF TOWN | Waterbury | CITY OF TOWN | NWO. | | CITY OF TOWN | 16 PROTECTION SN/1 b. E | Cathodic PROTECTION | | | | | | | | × | ۶< | | NAN | Gre |
| 100 | | CITY.O | Wate | CITY 0 | CITY O | | CITY C | 16 INTERN | NACINED | × | × | | ĸ, | × | M | | | | | y not to | malion |
| | " | | ð | | , | 0 | | , a | "rINED | • |], | | | | , | | | | onally ex uments a | accurate and complete. notify snall be subject to a civil penalty not to | false into |
| Service Service Service | SLE. | 2 1 | | | , | FEDERAL (G.S.A:NO. | | \$ | OTHER- (Specify from List A) | | | - | | | | | | | ave pers thed doc obtaining | plete. ct to a cr | or which |
| W W | LEGIE | O L | _ | | 1 | (6.5 | ខាធ | ERES. | DITEJAG | × | | | | | | | | | that I h Jall attac nsible for | and com be subje | inen ar |
| FOGR | S127 . | FERSE | 4 | | | ERA | - | 15. CONSTRUCTION MATERIALS | FIBERGLASS | | × | | × | M | × | | × | × | ilty of lav this and ely respo | accurate and complete, | 100 |
| F. red | Ment 06106-8 1ES ME | NEARES INTERSE | Casr St. /F | | ļ [| FEL | | 15 | | | | | | | | | . ! | | our pena penindari meteriali | 4 5 E | 911111111111111111111111111111111111111 |
| STATE OF CONNECTICAL DEPARTMENT OF THE PROGRAM UNDERGROUND STORAGE FACILITIES PROGRAM | Oursau of Waste Management 79 ELM STREET, Harrico (27 0e1/06-5127 TEL (660) 424-3374 PE OR PRINT, ALL THREE COPIES MUST BE LEGIBLE, INTIDIA'S FOD EILING MATHEIR AND MARKE & AMBREE & MATHEIR AND MARKE & MATHEIR AND MARKET & MATHEIR & MATHE | NEAR | و | | | | | | NCIPAL) | 4 2 | nane 5 | | | | | *** | | | 22. CERTIFICATION I territy unc consity of law that I have personelly examined and an familiar with the information sub-civity or has and all attached documents and that based on my inquiry of those individuals in missing responsible for obtaining the information. | i believe that the submitted information is remarked and who knowingly fair. | enceeds <u>subudoj or eart</u> ijags to varen notte. End gwen of for which laise information is submitted |
| DF CON | Waste Hartfo (860) 4; LTHRI | | | | | | | | CHEMICAL NAME OF PRINCIPAL SUBSTANCE (not trade name) (Enter C.A.S. No., if known) | Heating fuel #2 | I,I,I, - Tricloroethane CAS #79016 | -:- | 011 | 011 | 011 | and a | 011 | 911 | TON: LA | who kno | SDE(30) |
| STATE (| TREET TEL | | n Ax | | ^ بر | | | SINI | NAME E iame) S. No., ii | leating | -Tricl | | Fuel | Fuel | Fuel (| | Fuel | Fuel | FICAT ar with th | the subn ty owner | VV for ea |
| Departn GROUI | ELM S OR PR | | opac | D D | | A.L. | 4 | CONT | CHEMICAL NAM SUBSTANCE (not trade name) (Enter C.A.S. No. | Τ. | = | | #2 F | #2 F | ~ | | 7 | Z E | CERT am tamili don my i | eve that alties: ar | exceed \$ 10.0 |
| UNDER | 79 TYPE | TREET | ուն | TREET | TREET | MUNICIPAL | HREET | 1 2 | | | | | - | * | | | * | | 22. and a | en en | is su |
| - 11 전 - 12 - 12 - 12 - 12 - 12 - 12 - 1 | Sureau of Waste Management 79 ELM STREET, Hartford, CT 0e106-5127 TEL (860) 424-3324 PLEASE TYPE GO PRINT, ALL THENE COPIES MUST BE LEGIBLE. PAGE 10 INSTRICTIONS FOR ELI ING. NOTHER CATION Pages & COPIES ACCORDING TO SURE ACC | NO. AND STREET | 526 Huntingdon Ave | O. AND S | NO AND STR | Mu. | NO AND STREET | 13 TYPE OF 14 CONTENTS CONTENTS | CHEMICAL | ¥ | × | | | | | * | | | | | ` |
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| | 151-2853 | 1 | Inc. | • | 8 | YTE | Strong | J | NO USE | | | | | | × | | | | 7707.0 | | |
| 'n | SITE 1.D. | | 14, | abo | abc | R PRIVATE | H | ., | | × | | | 0 | 0 | 0 | | 0 X | N O | KS AN | | 1 |
| BAG | (if checked. | <u>u</u> | Derm | . a | ме Ѕате ав ароуе | | Gregory J. | , e | TOTAL CAPACITY (Gals) | 5000 | 8000 | | 10,000 | 10,000 | 6,000 | | 10,000 | 4,000 | F TAN | | |
| UNDERGROUND STORAGE FACILITY NOTIFICATION | (if ch | SITE NAME | MacDermid, Inc. | NAME SAME AS ADOVE | Sam | | NAME Gre | 12a | (sread to a) | 30 | ì | | 15 1 | | | | | | 20. HAVE YOU ATTACHED SKETCH OF TANKS AND LOCATION? X YES 21. COMMENTS; | | |
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| ERG | NOTI | LOCATION | OF FACILITY | NESS I | FACILITY OWNER | 8. TYPE OF OWNER | AATOR/ | | | <u></u> | <u>a</u> | | | | | | | | 20. HAVE YOU ATTAC 21. COMMENTS: | | |
| INDE | ъ е | | | | 7. FACIL | TYPE | OPEF. | 0, | TANK 1.D | Example | Example | | 41 | BI | 13 | | A 2 | B 2 | HAVE | | |
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Date: March 16, 2001 Rev. No. 0

APPENDIX I 1995 SOIL LABORATORY REPORTS

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HRP

Associates, Inc.

Date: March 16, 2001 Rev. No. 0

| 1995 S | OIL DATA INDEX FOR VOCs | |
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| MW-108 | GZ-9 | 9 |
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| 1995 SC | OIL DATA INDEX FOR METALS | |
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EPA METHOD 8260 ANALYSIS FOR VOLATILE ORGANICS BY GC/MS CONCENTRATION (PPB-ug/kg - Solid)

PROJECT:

MACDERMID, INC.

LOCATION:

WATERBURY, CT

FILE NO.:

41462

SAMPLE ID: MATRIX:

GZ-1, S-5 (20-22')

SOLID

LABORATORY #:

C1931

PROJECT MGR.:

DATE SAMPLED:

DATE EXTRACTED:

DATE TESTED:

1/18/95

T. CARR

1/12 & 13/95

DILUTION FACTOR:

| TARGET COMPOUND LIST | | QUANT. | TARGET COMPOUND LIST | | QUANT |
|--------------------------------|----------|--------|-----------------------------|----------|-------|
| 8260 COMPOUNDS | CONC. | LIMIT | 8260 COMPOUNDS: | CONC. | LIMIT |
| DICHLORODIFLUOROMETHANE | ND | 10 | 2-HEXANONE (MBK) | ND | 10 |
| CHLOROMETHANE | ND | 10 | 1,3-DICHLOROPROPANE | ND | 5 |
| VINYL CHLORIDE | ND | 10 | TETRACHLOROETHENE | ND | 5 |
| BROMOMETHANE | ND | 10 | DIBROMOCHLOROMETHANE | ND | 5 |
| CHLOROETHANE | ND | 10 | 1,2-DIBROMOETHANE (EDB) | ND | 10 |
| TRICHLOROFLUOROMETHANE | ND | 20 | CHLOROBENZENE | ND | 5 |
| ACETONE | ND | 1.25 | 1,1,1,2~TETRACHLOROETHANE | ND | 5 |
| 1,1-DICHLOROETHENE | ND | 5 | ETHYL BENZENE | ND | 5 |
| METHYLENE CHLORIDE | ND | 5 | m&p-XYLENES | ND | 5 |
| CARBON DISULFIDE | ND | 10 | o-XYLENE | ND | 5 |
| METHYL tert-BUTYL ETHER (MtBE) | ND | 5 | STYRENE | ND | 5 |
| trans-1,2-DICHLOROETHENE | ND | 5 | вномогонм | ND | 10 |
| 1,1-DICHLOROETHANE | ND | 5 | ISOPROPYLBENZENE | ND | 5 |
| VINYL ACETATE | ND | 25 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 |
| 2-BUTANONE (MEK) | ND | 125 | 1,2,3-TRICHLOROPROPANE | ND | 5 |
| 2,2-DICHLOROPROPANE | ND | 5 | BROMOBENZENE | ND | 5 |
| cis-1,2-DICHLOROETHENE | ND | 5 | n-PROPYLBENZENE | , ND | 5 |
| CHLOROFORM | ND | 5 | 2-CHLOROTOLUENE | ND | 5 |
| BROMOCHLOROMETHANE | ND | 5 | 1,3,5-TRIMETHYLBENZENE | ND | 5 |
| 1,1,1-TRICHLOROETHANE | ND | 5 | 4-CHLOROTOLUENE | ND | 5 |
| 1,1-DICHLOROPROPENE | ND | 5 | tert-BUTYLBENZENE | ND | 5 |
| CARBON TETRACHLORIDE | ND | 5 | 1,2,4~TRIMETHYLBENZENE | ND | 5 |
| 1,2-DICHLOROETHANE | ND | 5 | sec-BUTYLBENZENE | ND | 5 |
| BENZENE | ND | 5 | p-ISOPROPYLTOLUENE | ND | 5 |
| TRICHLOROETHENE | ND | 5 | 1,3-DICHLOROBENZENE | ND | 5 |
| 1,2-DICHLOROPROPANE | ND | 5 | 1,4-DICHLOROBENZENE | ND | 5 |
| BROMODICHLOROMETHANE | ND | 5 | n-BUTYLBENZENE | ND | 5 |
| DIBROMOMETHANE | ND | 5 | 1,2-DICHLOROBENZENE | ND | 5 |
| 4-METHYL-2-PENTANONE (MIBK) | ND | 5 | 1,2-DIBROMO-3-CHLOROPROPANE | ND | 25 |
| cis-1,3-DICHLOROPROPENE | ND | 5 | 1,2,4-TRICHLOROBENZENE | ND | 5 |
| TOLUENE | ND | 5 | HEXACHLOROBUTADIENE | ND | 5 |
| trans-1,3-DICHLOROPROPENE | ND | 5 | NAPHTHALENE | ND | 5 |
| 1,1,2-TRICHLOROETHANE | ND | 5 | 1,2,3-TRICHLOROBENZENE | ND | 5 |
| SURROGATE | % RECOV. | | SURROGATE | % RECOV. | |
| 1,2-DICHLOROETHANE - D4 | 104 | | TOLUENE - D8 | 102 | |

ANALYZED BY:

REVIEWED BY: Wall

EPA METHOD 8260 ANALYSIS FOR VOLATILE ORGANICS BY GC/MS CONCENTRATION (PPB-ug/kg - Solid)

PROJECT:

MACDERMID, INC.

LOCATION:

WATERBURY, CT

FILE NO.: SAMPLE ID: 41462 GZ-2, S-3 (10-12')

MATRIX:

LABORATORY #:

SOLID

C1932

PROJECT MGR.:

DATE SAMPLED:

1/12 & 13/95

DATE EXTRACTED: DATE TESTED:

1/18/95

T. CARR

DILUTION FACTOR: 1

| TARGET COMPOUND LIST | | QUANT. | TARGET COMPOUND LIST | gilar e gil | QUANT. |
|--------------------------------|----------|--------|-----------------------------|-------------|--------|
| 8260 COMPOUNDS | CONC. | LIMIT | 8260 COMPOUNDS: | CONC. | LIMIT |
| DICHLORODIFLUOROMETHANE | ND | 10 | 2-HEXANONE (MBK) | ND | 10 |
| CHLOROMETHANE | ND | 10 | 1,3-DICHLOROPROPANE | ND | 5 |
| VINYL CHLORIDE | ND | 10 | TETRACHLOROETHENE | ND | 5 |
| BROMOMETHANE | ND | 10 | DIBROMOCHLOROMETHANE | ND | 5 |
| CHLOROETHANE | ND | 10 | 1,2-DIBROMOETHANE (EDB) | ND | 10 |
| TRICHLOROFLUOROMETHANE | ND | 20 | CHLOROBENZENE | ND | 5 |
| ACETONE | ND | 125 | 1,1,1,2-TETRACHLOROETHANE | ND | 5 |
| 1,1-DICHLOROETHENE | ND | 5 | ETHYL BENZENE | ND | 5 |
| METHYLENE CHLORIDE | ND | 5 | m&p-XYLENES | ND | 5 |
| CARBON DISULFIDE | ND | 10 | o-XYLENE | ND | 5 |
| METHYL tert-BUTYL ETHER (MtBE) | ND | 5 | STYRENE | ND | 5 |
| trans-1,2-DICHLOROETHENE | ND | 5 | BROMOFORM | ND | 10 |
| 1,1-DICHLOROETHANE | ND | 5 | ISOPROPYLBENZENE | ND | 5 |
| VINYL ACETATE | ND | 25 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 |
| 2-BUTANONE (MEK) | ND | 125 | 1,2,3-TRICHLOROPROPANE | ND | 5 |
| 2,2-DICHLOROPROPANE | ND | 5 | BROMOBENZENE | ND | 5 |
| cis-1,2-DICHLOROETHENE | ND | 5 | n-PROPYLBENZENE | ND | 5 |
| CHLOROFORM | ND | 5 | 2-CHLOROTOLUENE | ND | 5 |
| BROMOCHLOROMETHANE | ND | 5 | 1,3,5-TRIMETHYLBENZENE | ND | 5 |
| 1,1,1-TRICHLOROETHANE | ND | 5 | 4-CHLOROTOLUENE | ND | 5 |
| 1,1-DICHLOROPROPENE | ND | 5 | tert-BUTYLBENZENE | ND | 5 |
| CARBON TETRACHLORIDE | ND | 5 | 1,2,4-TRIMETHYLBENZENE | ND | 5 |
| 1,2-DICHLOROETHANE | ND | 5 | sec-BUTYLBENZENE | ND | 5 |
| BENZENE | ND | 5 | p-ISOPROPYLTOLUENE | ND | 5 |
| TRICHLOROETHENE | ND | 5 | 1,3-DICHLOROBENZENE | ND | 5 |
| 1,2-DICHLOROPROPANE | ND | 5 | 1,4-DICHLOROBENZENE | ND | . 5 |
| BROMODICHLOROMETHANE | ND | 5 | n-BUTYLBENZENE | ND | 5 |
| DIBROMOMETHANE | ND | 5 | 1,2-DICHLOROBENZENE | ND | 5 |
| 4-METHYL-2-PENTANONE (MIBK) | ND | 5 | 1,2-DIBROMO-3-CHLOROPROPANE | ND | 25 |
| cis-1,3-DICHLOROPROPENE | ND | 5 | 1,2,4-TRICHLOROBENZENE | ND | 5 |
| TOLUENE | ND | 5 | HEXACHLOROBUTADIENE | ND | 5 |
| trans-1,3-DICHLOROPROPENE | ND | 5 | NAPHTHALENE | ND | 5 |
| 1,1,2-TRICHLOROETHANE | ND | 5 | 1,2,3-TRICHLOROBENZENE | ND | . 5 |
| SURROGATE | % RECOV. | | SURROGATE | % RECOV. | |
| 1,2-DICHLOROETHANE - D4 | 98.7 | | TOLUENE - D8 | 102 | |

ANALYZED BY:

REVIEWED BY: Hualil

EPA METHOD 8260 ANALYSIS FOR VOLATILE ORGANICS BY GC/MS CONCENTRATION (PPB-ug/kg - Solid)

PROJECT:

MACDERMID, INC.

LOCATION: FILE NO.:

WATERBURY, CT

41462

SAMPLE ID: MATRIX:

LABORATORY #:

GZ-3, S-1 (0.5-2.5')

SOLID C1933 PROJECT MGR.:

DATE SAMPLED:

T. CARR 1/12 & 13/95

DATE EXTRACTED:

1/18/95

DATE TESTED: **DILUTION FACTOR:**

1

| TARGET COMPOUND LIST | Tavati e esta | QUANT. | TARGET COMPOUND LIST | Franklik in 12. | QUANT. |
|--------------------------------|---------------|--------|-----------------------------|-----------------|--------|
| 8260 COMPOUNDS | CONC. | LIMIT | 8260 COMPOUNDS: | CONC. | LIMIT |
| | | | | | |
| DICHLORODIFLUOROMETHANE | ND | 10 | ` | ND | 10 |
| CHLOROMETHANE | ND | 10 | 1,3-DICHLOROPROPANE | ND | 5 |
| VINYL CHLORIDE | 27 | 10 | TETRACHLOROETHENE | ND | 5 |
| BROMOMETHANE | ND | 10 | DIBROMOCHLOROMETHANE | ND | 5 |
| CHLOROETHANE | ND | 10 | 1,2-DIBROMOETHANE (EDB) | ND | 10 |
| TRICHLOROFLUOROMETHANE | ND | 20 | CHLOROBENZENE | ND · | 5 |
| ACETONE | 170 | 125 | 1,1,1,2-TETRACHLOROETHANE | ND | 5 |
| 1,1-DICHLOROETHENE | ND | 5 | ETHYL BENZENE | ND | 5 |
| METHYLENE CHLORIDE | ND | 5 | m&p-XYLENES | ND | 5 |
| CARBON DISULFIDE | ND | 10 | o-XYLENE | ND | 5 |
| METHYL tert-BUTYL ETHER (MtBE) | ND | 5 | STYRENE | ND | 5 |
| trans-1,2-DICHLOROETHENE | BMQL | 5 | BROMOFORM | ND | 10 |
| 1,1-DICHLOROETHANE | ND | 5 | ISOPROPYLBENZENE | ND | 5 |
| VINYL ACETATE | ND | 25 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 |
| 2-BUTANONE (MEK) | ND | 125 | 1,2,3-TRICHLOROPROPANE | ND | 5 |
| 2,2-DICHLOROPROPANE | ND | 5 | BROMOBENZENE | ND | 5 |
| cis-1,2-DICHLOROETHENE | 87 | 5 | n-PROPYLBENZENE | ND | 5 |
| CHLOROFORM | ND | 5 | 2-CHLOROTOLUENE | ND | 5 |
| BROMOCHLOROMETHANE | ND | 5 | 1,3,5-TRIMETHYLBENZENE | ND | 5 |
| 1,1,1-TRICHLOROETHANE | ND | 5 | 4-CHLOROTOLUENE | ND | 5 |
| 1,1-DICHLOROPROPENE | ND | 5 | tert-BUTYLBENZENE | ND | 5 |
| CARBON TETRACHLORIDE | ND | 5 | 1,2,4-TRIMETHYLBENZENE | ND | 5 |
| 1,2-DICHLOROETHANE | ND | 5 | sec-BUTYLBENZENE | ND | 5 |
| BENZENE | ND | 5 | p-ISOPROPYLTOLUENE | ND | 5 |
| TRICHLOROETHENE | ND | 5 | 1,3-DICHLOROBENZENE | ND | 5 |
| 1,2-DICHLOROPROPANE | ND | 5 | 1,4-DICHLOROBENZENE | ND | 5 |
| BROMODICHLOROMETHANE | ND | 5 | n-BUTYLBENZENE | ND | 5 |
| DIBROMOMETHANE | ND | 5 | 1,2-DICHLOROBENZENE | ND | 5 |
| 4-METHYL-2-PENTANONE (MIBK) | ND | 5 | 1,2-DIBROMO-3-CHLOROPROPANE | ND | 25 |
| cis-1,3-DICHLOROPROPENE | ND | 5 | 1,2,4-TRICHLOROBENZENE | ND | 5 |
| TOLUENE | ND | 5 | HEXACHLOROBUTADIENE | ND | 5 |
| trans-1,3-DICHLOROPROPENE | ND | 5 | NAPHTHALENE | ND | - 5 |
| 1,1,2-TRICHLOROETHANE | ND | 5 | 1,2,3~TRICHLOROBENZENE | ND | 5 |
| SURROGATE | % RECOV. | | SURROGATE | % RECOV. | |
| 1,2-DICHLOROETHANE - D4 | 105 | | TOLUENE - D8 | 96.6 | |

ANALYZED BY:

REVIEWED BY: Hull

EPA METHOD 8260 ANALYSIS FOR VOLATILE ORGANICS BY GC/MS CONCENTRATION (PPB-ug/kg - Solid)

PROJECT:

MACDERMID, INC.

LOCATION:

WATERBURY, CT

FILE NO.:

41462

SAMPLE ID: MATRIX:

LABORATORY #:

GZ-5, S-1 (0-2')

SOLID

C1936

PROJECT MGR.:

DATE SAMPLED:

T. CARR 1/12 & 13/95

DATE EXTRACTED:

DATE TESTED:

1/18/95

DILUTION FACTOR:

1

| TARGET COMPOUND LIST | | QUANT. | TARGET COMPOUND LIST | QUANT |
|--------------------------------|----------|--------------|--------------------------------|-------|
| 8260 COMPOUNDS | CONC. | LIMIT | 8260 COMPOUNDS: CONC. | LIMIT |
| DICHLORODIFLUOROMETHANE | ND | 10 | 2-HEXANONE (MBK) ND | 10 |
| CHLOROMETHANE | ND | 10 | 1,3-DICHLOROPROPANE ND | 5 |
| VINYL CHLORIDE | ND | 10 | TETRACHLOROETHENE ND | 5 |
| BROMOMETHANE | ND | 10 | DIBROMOCHLOROMETHANE ND | 5 |
| CHLOROETHANE | ND | 10 | 1,2-DIBROMOETHANE (EDB) ND | 10 |
| TRICHLOROFLUOROMETHANE | ND | 20 | CHLOROBENZENE ND | 5 |
| ACETONE | ND | 125 | 1,1,1,2-TETRACHLOROETHANE ND | 5 |
| 1,1-DICHLOROETHENE | ND | 5 | ETHYL BENZENE ND | 5 |
| METHYLENE CHLORIDE | ND | 5 | m&p-XYLENES ND | 5 |
| CARBON DISULFIDE | ND | 10 | o-XYLENE ND | 5 |
| METHYL tert-BUTYL ETHER (MtBE) | ND | 5 | STYRENE ND | 5 |
| trans-1,2-DICHLOROETHENE | ND | 5 | BROMOFORM ND | 10 |
| 1,1-DICHLOROETHANE | ND | 5 | ISOPROPYLBENZENE ND | 5 |
| VINYL ACETATE | ND | 25 | 1,1,2,2-TETRACHLOROETHANE ND | 5 |
| 2-BUTANONE (MEK) | ND | 125 | 1,2,3-TRICHLOROPROPANE ND | 5 |
| 2,2-DICHLOROPROPANE | ND | 5 | BROMOBENZENE ND | 5 |
| cis-1,2-DICHLOROETHENE | ND | 5 | n-PROPYLBENZENE ND | 5 |
| CHLOROFORM | ND | 5 | 2-CHLOROTOLUENE ND | 5 |
| BROMOCHLOROMETHANE | ND | 5 | 1,3,5-TRIMETHYLBENZENE ND | 5 |
| 1,1,1-TRICHLOROETHANE | ND | 5 | 4-CHLOROTOLUENE ND | 5 |
| 1,1-DICHLOROPROPENE | ND | 5 | tert-BUTYLBENZENE ND | 5 |
| CARBON TETRACHLORIDE | ND | 5 | 1,2,4-TRIMETHYLBENZENE ND | 5 |
| 1,2-DICHLOROETHANE | ND | 5 | sec-BUTYLBENZENE ND | 5 |
| BENZENE | ND | 5 | p-ISOPROPYLTOLUENE ND | 5 |
| TRICHLOROETHENE | ND | 5 | 1,3-DICHLOROBENZENE ND | 5 |
| 1,2-DICHLOROPROPANE | ND | 5 | 1,4-DICHLOROBENZENE ND | 5 |
| BROMODICHLOROMETHANE | ND | 5 | n-BUTYLBENZENE ND | 5 |
| DIBROMOMETHANE | ND | 5 | 1,2-DICHLOROBENZENE ND | - 5 |
| 4-METHYL-2-PENTANONE (MiBK) | ND | 5 | 1,2-DIBROMO-3-CHLOROPROPANE ND | 25 |
| cis-1,3-DICHLOROPROPENE | ND | 5 | 1,2,4-TRICHLOROBENZENE ND | 5 |
| TOLUENE | ND | 5 | HEXACHLOROBUTADIENE ND | 5 |
| trans-1,3-DICHLOROPROPENE | ND | 5 | NAPHTHALENE ND | 5 |
| 1,1,2-TRICHLOROETHANE | ND | 5 | 1,2,3-TRICHLOROBENZENE ND | 5 |
| SURROGATE | % RECOV. | # <u>1</u> . | SURROGATE % RECOV. | |
| 1,2-DICHLOROETHANE - D4 | 103 | | TOLUENE - D8 101 | |

ANALYZED BY:

REVIEWED BY: Hualil

EPA METHOD 8260 ANALYSIS FOR VOLATILE ORGANICS BY GC/MS CONCENTRATION (PPB-ug/kg - Solid)

PROJECT:

MACDERMID, INC.

LOCATION:

MATRIX:

WATERBURY, CT

FILE NO.: SAMPLE ID:

LABORATORY #:

41462

GZ-6, S-1 (0.5-2.5') SOLID

C1937

PROJECT MGR.:

DATE SAMPLED:

1/12 & 13/95

DATE EXTRACTED: DATE TESTED:

1/18/95

1

T. CARR

DILUTION FACTOR:

| TARGET COMPOUND LIST | | QUANT. | TARGET COMPOUND LIST | | QUANT. |
|--------------------------------|----------|--------|-----------------------------|----------|--------|
| 8260 COMPOUNDS | CONC. | LIMIT | 8260 COMPOUNDS: | CONC. | LIMIT |
| DICHLORODIFLUOROMETHANE | ND | 10 | 2-HEXANONE (MBK) | ND | 10 |
| CHLOROMETHANE | ND | 10 | 1,3-DICHLOROPROPANE | ND | 5 |
| VINYL CHLORIDE | ND | 10 | TETRACHLOROETHENE | ND | 5 |
| BROMOMETHANE | ND | 10 | DIBROMOCHLOROMETHANE | ND | 5 |
| CHLOROETHANE | ND | 10 | 1,2-DIBROMOETHANE (EDB) | ND | 10 |
| TRICHLOROFLUOROMETHANE | ND | 20 | CHLOROBENZENE | ND | 5 |
| ACETONE | ND | 125 | 1,1,1,2-TETRACHLOROETHANE | ND | 5 |
| 1,1-DICHLOROETHENE | ND | 5 | ETHYL BENZENE | ND | 5 |
| METHYLENE CHLORIDE | ND | 5 | m&p-XYLENES | ND | 5 |
| CARBON DISULFIDE | ND | 10 | o-XYLENE | ND | 5 |
| METHYL tert-BUTYL ETHER (MtBE) | ND | 5 | STYRENE | ND | 5 |
| trans-1,2-DICHLOROETHENE | ND | 5 | BROMOFORM | ND | 10 |
| 1,1-DICHLOROETHANE | ND | 5 | ISOPROPYLBENZENE | ND | 5 |
| VINYL ACETATE | ND | 25 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 |
| 2-BUTANONE (MEK) | ND | 125 | 1,2,3-TRICHLOROPROPANE | ND | 5 |
| 2,2-DICHLOROPROPANE | ND | 5 | BROMOBENZENE | ND | 5 |
| cis-1,2-DICHLOROETHENE | ND | 5 | n-PROPYLBENZENE | ND | 5 |
| CHLOROFORM | ND | 5 | 2-CHLOROTOLUENE | ND | 5 |
| BROMOCHLOROMETHANE | ND | 5 | 1,3,5-TRIMETHYLBENZENE | ND | 5 |
| 1,1,1-TRICHLOROETHANE | ND | 5 | 4-CHLOROTOLUENE | ND | 5 |
| 1,1-DICHLOROPROPENE | ND | 5 | tert-BUTYLBENZENE | ND | 5 |
| CARBON TETRACHLORIDE | ND | 5 | 1,2,4-TRIMETHYLBENZENE | ND | 5 |
| 1,2-DICHLOROETHANE | ND | 5 | sec-BUTYLBENZENE | ND | 5 |
| BENZENE | ND | 5 | p-ISOPROPYLTOLUENE | ND | 5 |
| TRICHLOROETHENE | ND | 5 | 1,3-DICHLOROBENZENE | ND | 5 |
| 1,2-DICHLOROPROPANE | ND | 5 | 1,4-DICHLOROBENZENE | ND | 5 |
| BROMODICHLOROMETHANE | ND | 5 | n-BUTYLBENZENE | ND | 5 |
| DIBROMOMETHANE | ND | 5 | 1,2-DICHLOROBENZENE | ND | 5 |
| 4-METHYL-2-PENTANONE (MIBK) | ND | 5 | 1,2-DIBROMO-3-CHLOROPROPANE | ND | 25 |
| cis-1,3-DICHLOROPROPENE | ND | . 5 | 1,2,4-TRICHLOROBENZENE | ND | 5 |
| TOLUENE | ND | 5 | HEXACHLOROBUTADIENE | ND | 5 |
| trans-1,3-DICHLOROPROPENE | ND | 5 | NAPHTHALENE | ND | 5 |
| 1,1,2-TRICHLOROETHANE | ND | 5 | 1,2,3-TRICHLOROBENZENE | ND | 5 |
| SURROGATE | % RECOV. | | SURROGATE | % RECOV. | |
| 1,2-DICHLOROETHANE - D4 | 95.3 | | TOLUENE - D8 | 96.9 | |

ANALYZED BY:

REVIEWED BY: Huall

EPA METHOD 8260 ANALYSIS FOR VOLATILE ORGANICS BY GC/MS CONCENTRATION (PPB-ug/kg - Solid)

PROJECT:

MACDERMID - WATERBURY, CT

FILE NO.:

41462

PROJECT MGR.:

T. CARR

SAMPLE ID:

GZ-7, 15-17'

DATE SAMPLED:

2/15/95

MATRIX:

SOLID

DATE TESTED:

2/22/95

LABORATORY #: C2161 **DILUTION FACTOR:**

1

| TARGET COMPOUND LIST | | QUANT. | TARGET COMPOUND LIST | | QUANT. |
|--------------------------------|-------|---------------------|-----------------------------|--------|--------|
| 8260 COMPOUNDS | CONC. | LIMIT | 8260 COMPOUNDS: | CONC. | LIMIT |
| DICHLORODIFLUOROMETHANE | ND | 10 | TETRACHLOROETHENE | ND | 5 |
| CHLOROMETHANE | ND | 10 | DIBROMOCHLOROMETHANE | ND | 5 |
| VINYL CHLORIDE | ND | 10 | 1,2-DIBROMOETHANE (EDB) | ND | 10 |
| BROMOMETHANE | ND | 10 | CHLOROBENZENE | ND | 5 |
| CHLOROETHANE | ND | 10 | 1,1,1,2-TETRACHLOROETHANE | ND | 5 |
| TRICHLOROFLUOROMETHANE | ND | 20 | ETHYL BENZENE | ND | 5 |
| ACETONE | ND | 125 | m&p-XYLENES | ND | 5 |
| 1,1-DICHLOROETHENE | ND | 5 | o-XYLENE | ND | 5 |
| METHYLENE CHLORIDE | ND | 5 | STYRENE | ND | 5 |
| CARBON DISULFIDE | ND | 10 | BROMOFORM | ND | 10 |
| METHYL tert-BUTYL ETHER (MtBE) | ND | 5 | ISOPROPYLBENZENE | ND | 5 |
| trans-1,2-DICHLOROETHENE | ND | 5 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 |
| 1,1~DICHLOROETHANE | ND | 5 | 1,2,3-TRICHLOROPROPANE | ND | 5 |
| VINYL ACETATE | ND | 25 | BROMOBENZENE | ND | 5 |
| 2-BUTANONE (MEK) | ND | 125 n-PROPYLBENZENE | | ND | 5 |
| 2,2-DICHLOROPROPANE | ND | 5 2-CHLOROTOLUENE | | ND | 5 |
| cis-1,2-DICHLOROETHENE | ND | 5 | 1,3,5-TRIMETHYLBENZENE | ND | 5 |
| CHLOROFORM | ND | 5 4-CHLOROTOLUENE | | ND | 5 |
| BROMOCHLOROMETHANE | ND | 5 tert-BUTYLBENZENE | | ND | 5 |
| 1,1,1-TRICHLOROETHANE | ND | 5 | 1,2,4-TRIMETHYLBENZENE | ND | 5 |
| 1,1-DICHLOROPROPENE | ND | 5 | 5 sec-BUTYLBENZENE | | 5 |
| CARBON TETRACHLORIDE | ND | 5 | p-ISOPROPYLTOLUENE | ND | 5 |
| 1,2-DICHLOROETHANE | ИD | 5 | 1,3-DICHLOROBENZENE | ND | 5 |
| BENZENE | ND | 5 | 1,4-DICHLOROBENZENE | ND | 5 |
| TRICHLOROETHENE | ND | 5 | n-BUTYLBENZENE | ND | 5 |
| 1,2-DICHLOROPROPANE | ND | 5 | 1,2-DICHLOROBENZENE | ND | 5 |
| BROMODICHLOROMETHANE | ND | 5 | 1,2-DIBROMO-3-CHLOROPROPANE | ND | 25 |
| DIBROMOMETHANE | ND | 5 | 1,2,4-TRICHLOROBENZENE | ND | 5 |
| 4-METHYL-2-PENTANONE (MIBK) | ND | 5 | HEXACHLOROBUTADIENE | ND | 5 |
| cis-1,3-DICHLOROPROPENE | ND | 5 | NAPHTHALENE | ND | 5 |
| TOLUENE | ND | 5 | 1,2,3-TRICHLOROBENZENE | ND | 5 |
| trans-1,3-DICHLOROPROPENE | ND | 5 | SURROGATE | % REC. | LIMITS |
| 1,1,2-TRICHLOROETHANE | ND | 5 | 1,2-DICHLOROETHANE - D4 | 98.9 | 70-121 |
| 2-HEXANONE (MBK) | ND | 10 | TOLUENE - D8 | 96.9 | 81-117 |
| 1,3-DICHLOROPROPANE | ND | 5 | 4-BROMOFLUOROBENZENE | 106 | 74-121 |

COMMENTS:

REVIEWED BY: Walsh

EPA METHOD 8260 ANALYSIS FOR VOLATILE ORGANICS BY GC/MS CONCENTRATION (PPB-ug/kg - Solid)

PROJECT:

MACDERMID - WATERBURY, CT

FILE NO.:

41462

PROJECT MGR.:

T. CARR

SAMPLE ID:

GZ-8, 0-2'

DATE SAMPLED:

2/15/95

MATRIX:

SOLID

DATE TESTED:

2/22/95

LABORATORY #:

C2162

DILUTION FACTOR:

1

| TARGET COMPOUND LIST | | QUANT. | TARGET COMPOUND LIST | | QUANT. |
|--------------------------------|-------|--------|-----------------------------|--------|--------|
| 8260 COMPOUNDS | CONC. | LIMIT | 8260 COMPOUNDS: | CONC. | LIMIT |
| DICHLORODIFLUOROMETHANE | ND | 10 | TETRACHLOROETHENE | ND | 5 |
| CHLOROMETHANE | ND | 10 | DIBROMOCHLOROMETHANE | ND | 5 |
| VINYL CHLORIDE | ND | 10 | 1,2-DIBROMOETHANE (EDB) | ND | 10 |
| BROMOMETHANE | ND | 10 | CHLOROBENZENE | ND | 5 |
| CHLOROETHANE | ND | 10 | 1,1,1,2-TETRACHLOROETHANE | ND | 5 |
| TRICHLOROFLUOROMETHANE | ND | 20 | ETHYL BENZENE | ND | 5 |
| ACETONE | ND | 125 | m&p-XYLENES | ND | 5 |
| 1,1-DICHLOROETHENE | ND | 5 | o-XYLENE | ND | 5 |
| METHYLENE CHLORIDE | ND | 5 | STYRENE | ND | 5 |
| CARBON DISULFIDE | ND | 10 | BROMOFORM | ND | 10 |
| METHYL tert-BUTYL ETHER (MtBE) | ND | 5 | ISOPROPYLBENZENE | ND | 5 |
| trans-1,2-DICHLOROETHENE | ND | 5 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 |
| 1,1-DICHLOROETHANE | ND | 5 | 1,2,3-TRICHLOROPROPANE | ND | 5 |
| VINYL ACETATE | ND | 25 | BROMOBENZENE | ND | 5 |
| 2-BUTANONE (MEK) | ND | 125 | n-PROPYLBENZENE | ND | 5 |
| 2,2-DICHLOROPROPANE | ND | 5 | 2-CHLOROTOLUENE | ND | 5 |
| cis-1,2-DICHLOROETHENE | ND | 5 | 1,3,5-TRIMETHYLBENZENE | ND | 5 |
| CHLOROFORM | ND | 5 | 4-CHLOROTOLUENE | ND | 5 |
| BROMOCHLOROMETHANE | ND | 5 | tert-BUTYLBENZENE | ND | 5 |
| 1,1,1-TRICHLOROETHANE | ND | 5 | 1,2,4-TRIMETHYLBENZENE | ND | 5 |
| 1,1-DICHLOROPROPENE | ND | 5 | sec-BUTYLBENZENE | ND | 5 |
| CARBON TETRACHLORIDE | ND | 5 | p-ISOPROPYLTOLUENE | ND | 5 |
| 1,2-DICHLOROETHANE | ND | 5 | 1,3-DICHLOROBENZENE | ND | 5 |
| BENZENE | ND | 5 | 1,4-DICHLOROBENZENE | ND | 5 |
| TRICHLOROETHENE | ND | 5 | n-BUTYLBENZENE | ND | 5 |
| 1,2-DICHLOROPROPANE | ND | 5 | 1,2-DICHLOROBENZENE | ND | 5 |
| BROMODICHLOROMETHANE | ND | 5 | 1,2-DIBROMO-3-CHLOROPROPANE | ND | 25 |
| DIBROMOMETHANE | ND | 5 | 1,2,4-TRICHLOROBENZENE | ND | 5 |
| 4-METHYL-2-PENTANONE (MiBK) | ND | 5 | HEXACHLOROBUTADIENE | ND | 5 |
| cis-1,3-DICHLOROPROPENE | ND | 5 | NAPHTHALENE | ND | 5 |
| TOLUENE | ND | 5 | 1,2,3-TRICHLOROBENZENE | ND | 5 |
| trans-1,3-DICHLOROPROPENE | ND | 5 | SURROGATE | % REC. | LIMITS |
| 1,1,2-TRICHLOROETHANE | ND | 5 | 1,2-DICHLOROETHANE - D4 | 98.1 | 70-121 |
| 2-HEXANONE (MBK) | ND | 10 | TOLUENE - D8 | 97.2 | 81-117 |
| 1,3-DICHLOROPROPANE | ND | 5 | 4-BROMOFLUOROBENZENE | 101 | 74-121 |

COMMENTS:

ANALYZED BY:

REVIEWED BY: Healel

EPA METHOD 8260 ANALYSIS FOR VOLATILE ORGANICS BY GC/MS CONCENTRATION (PPB-ug/kg - Solid)

PROJECT:

MACDERMID - WATERBURY, CT

FILE NO.:

41462

PROJECT MGR.:

T. CARR

SAMPLE ID:

GZ-8, 25-27'

DATE SAMPLED:

2/15/95

| MATRIX: SOLID LABORATORY #: C2163 | | | DATE TESTED: 2/22 DILUTION FACTOR: 1 | 2/95 | |
|--|-------|--------|---|----------|--------|
| TARGET COMPOUND LIST 8260 COMPOUNDS | CONC. | QUANT. | TARGET COMPOUND LIST 8260 COMPOUNDS: | CONC. | QUANT. |
| | | | | 1 | |
| DICHLORODIFLUOROMETHANE | ND | 10 | TETRACHLOROETHENE | ND | 5 |
| CHLOROMETHANE | ND | 10 | DIBROMOCHLOROMETHANE | ND | 5 |
| VINYL CHLORIDE | ND | 10 | 1,2-DIBROMOETHANE (EDB) | ND | 10 |
| BROMOMETHANE | ND | 10 | CHLOROBENZENE | ND | 5 |
| CHLOROETHANE | ND | 10 | 1,1,1,2-TETRACHLOROETHANE | ND | 5 |
| TRICHLOROFLUOROMETHANE | ND | 20 | ETHYL BENZENE | ND | 5 |
| ACETONE | ND | 125 | m&p-XYLENES | ND | 5 |
| 1 1- DICHI ODOETHENE | ND | | • WIENE | ND | اء |

| | | 1 | 188 | | |
|--------------------------------|----|-----|-----------------------------|--------|--------|
| DICHLORODIFLUOROMETHANE | ND | 10 | TETRACHLOROETHENE | ND | 5 |
| CHLOROMETHANE | ND | 10 | DIBROMOCHLOROMETHANE | ND | 5 |
| VINYL CHLORIDE | ND | 10 | 1,2-DIBROMOETHANE (EDB) | ND | 10 |
| BROMOMETHANE | ND | 10 | CHLOROBENZENE | ND | 5 |
| CHLOROETHANE | ND | 10 | 1,1,1,2-TETRACHLOROETHANE | ND | 5 |
| TRICHLOROFLUOROMETHANE | ND | 20 | ETHYL BENZENE | ND | 5 |
| ACETONE | ND | 125 | m&p-XYLENES | ND | 5 |
| 1,1-DICHLOROETHENE | ND | 5 | o-XYLENE | ND | 5 |
| METHYLENE CHLORIDE | ND | 5 | STYRENE | ND | 5 |
| CARBON DISULFIDE | ND | 10 | BROMOFORM | ND | 10 |
| METHYL tert-BUTYL ETHER (MtBE) | ND | 5 | ISOPROPYLBENZENE | ND | 5 |
| trans-1,2-DICHLOROETHENE | ND | 5 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 |
| 1,1-DICHLOROETHANE | ND | 5 | 1,2,3-TRICHLOROPROPANE | ND | 5 |
| VINYL ACETATE | ND | 25 | BROMOBENZENE | ND | 5 |
| 2-BUTANONE (MEK) | ND | 125 | n-PROPYLBENZENE | ND | 5 |
| 2,2-DICHLOROPROPANE | ND | 5 | 2-CHLOROTOLUENE | ND | 5 |
| cis-1,2-DICHLOROETHENE | ND | 5 | 1,3,5-TRIMETHYLBENZENE | ND | 5 |
| CHLOROFORM | ND | 5 | 4-CHLOROTOLUENE | ND | 5 |
| BROMOCHLOROMETHANE | ND | 5 | tert-BUTYLBENZENE | ND | 5 |
| 1,1,1-TRICHLOROETHANE | ND | 5 | 1,2,4-TRIMETHYLBENZENE | ND | 5 |
| 1,1-DICHLOROPROPENE | ND | 5 | sec-BUTYLBENZENE | ND | 5 |
| CARBON TETRACHLORIDE | ND | 5 | p-ISOPROPYLTOLUENE | ND | 5 |
| 1,2-DICHLOROETHANE | ND | 5 | 1,3-DICHLOROBENZENE | ND | 5 |
| BENZENE | ND | 5 | 1,4-DICHLOROBENZENE | ND | 5 |
| TRICHLOROETHENE | ND | 5 | n-BUTYLBENZENE | ND | 5 |
| 1,2-DICHLOROPROPANE | ND | 5 | 1,2-DICHLOROBENZENE | ND | 5 |
| BROMODICHLOROMETHANE | ND | 5 | 1,2-DIBROMO-3-CHLOROPROPANE | ND | 25 |
| DIBROMOMETHANE | ND | 5 | 1,2,4-TRICHLOROBENZENE | ND | 5 |
| 4-METHYL-2-PENTANONE (MIBK) | ND | 5 | HEXACHLOROBUTADIENE | ND | 5 |
| cis-1,3-DICHLOROPROPENE | ND | 5 | NAPHTHALENE | ND | 5 |
| TOLUENE | ND | 5 | 1,2,3-TRICHLOROBENZENE_ | ND | 5 |
| trans-1,3-DICHLOROPROPENE | ND | 5 | SURROGATE | % REC. | LIMITS |
| 1,1,2-TRICHLOROETHANE | ND | 5 | 1,2-DICHLOROETHANE - D4 | 102 | 70-121 |
| 2-HEXANONE (MBK) | ND | 10 | TOLUENE - D8 | 98.0 | 81-117 |
| 1,3~DICHLOROPROPANE | ND | 5 | 4-BROMOFLUOROBENZENE | 105 | 74-121 |

COMMENTS:

REVIEWED BY: Fualsh _

EPA METHOD 8260 ANALYSIS FOR VOLATILE ORGANICS BY GC/MS CONCENTRATION (PPB-ug/kg - Solid)

PROJECT:

MACDERMID - WATERBURY, CT

FILE NO.:

41462

PROJECT MGR.:

T. CARR

SAMPLE ID:

GZ-9, 10-12'

DATE SAMPLED:

2/16/95

MATRIX:

SOLID

DATE TESTED:

2/22/95

LABORATORY #:

C2164

DILUTION FACTOR:

1

| | | QUANT. | · | TARGET COMPOUND LIST | | QUANT. |
|--------------------------------|-------|--------|---|-----------------------------|--------|--------|
| 8260 COMPOUNDS | CONC. | LIMIT | | 8260 COMPOUNDS: | CONC. | LIMIT |
| DICHLORODIFLUOROMETHANE | ND | 10 | | TETRACHLOROETHENE | ND | 5 |
| CHLOROMETHANE | ND | 10 | | DIBROMOCHLOROMETHANE | ND | 5 |
| VINYL CHLORIDE | ND | 10 | | 1,2-DIBROMOETHANE (EDB) | ND | 10 |
| BROMOMETHANE | ND | 10 | | CHLOROBENZENE | ND | 5 |
| CHLOROETHANE | ND | 10 | | 1,1,1,2-TETRACHLOROETHANE | ND | 5 |
| TRICHLOROFLUOROMETHANE | ND | 20 | | ETHYL BENZENE | ND | 5 |
| ACETONE | ND | 125 | | m&p-XYLENES | ND | 5 |
| 1,1-DICHLOROETHENE | ND - | 5 | | o-XYLENE | ND | 5 |
| METHYLENE CHLORIDE | ND | 5 | | STYRENE | ND | 5 |
| CARBON DISULFIDE | ND | 10 | | вромогори | ND | 10 |
| METHYL tert-BUTYL ETHER (MtBE) | ND | 5 | | ISOPROPYLBENZENE | ND | 5 |
| trans-1,2-DICHLOROETHENE | ND | 5 | | 1,1,2,2-TETRACHLOROETHANE | ND | 5 |
| 1,1-DICHLOROETHANE | ND | 5 | | 1,2,3-TRICHLOROPROPANE | ND | 5 |
| VINYL ACETATE | ND | 25 | | BROMOBENZENE | ND | 5 |
| 2-BUTANONE (MEK) | ND | 125 | | n-PROPYLBENZENE | ND | 5 |
| 2,2-DICHLOROPROPANE | ND | 5 | | 2-CHLOROTOLUENE | ND | 5 |
| cis-1,2-DICHLOROETHENE | ND | 5 | | 1,3,5-TRIMETHYLBENZENE | ND | 5 |
| CHLOROFORM | ND | 5 | | 4-CHLOROTOLUENE | ND | 5 |
| BROMOCHLOROMETHANE | ND | 5 | | tert-BUTYLBENZENE | ND | 5 |
| 1,1,1-TRICHLOROETHANE | ND | 5 | | 1,2,4-TRIMETHYLBENZENE | ND | 5 |
| 1,1-DICHLOROPROPENE | ND | 5 | | sec-BUTYLBENZENE | ND | 5 |
| CARBON TETRACHLORIDE | ND | 5 | | p-ISOPROPYLTOLUENE | ND | 5 |
| 1,2-DICHLOROETHANE | ND | 5 | | 1,3-DICHLOROBENZENE | ND | 5 |
| BENZENE | ND | 5 | | 1,4-DICHLOROBENZENE | ND | 5 |
| TRICHLOROETHENE | ND | 5 | | n-BUTYLBENZENE | ND | 5 |
| 1,2-DICHLOROPROPANE | ND | 5 | | 1,2-DICHLOROBENZENE | ND | 5 |
| BROMODICHLOROMETHANE | ND | 5 | | 1,2-DIBROMO-3-CHLOROPROPANE | ND | 25 |
| DIBROMOMETHANE | ND | 5 | | 1,2,4-TRICHLOROBENZENE | ND | 5 |
| 4-METHYL-2-PENTANONE (MiBK) | ND . | 5 | | HEXACHLOROBUTADIENE | ND | 5 |
| cis-1,3-DICHLOROPROPENE | ND | 5 | | NAPHTHALENE | ND | 5 |
| TOLUENE | ND | 5 | | 1,2,3-TRICHLOROBENZENE | ND | 5 |
| trans-1,3-DICHLOROPROPENE | ND | 5 | | SURROGATE | % REC. | LIMITS |
| 1,1,2-TRICHLOROETHANE | ND | 5 | | 1,2-DICHLOROETHANE - D4 | 95.9 | 70-121 |
| 2-HEXANONE (MBK) | ND | 10 | | TOLUENE - D8 | 97.8 | 81-117 |
| 1,3-DICHLOROPROPANE | ND | 5 | | 4-BROMOFLUOROBENZENE | 102 | 74-121 |

COMMENTS:

ANALYZED BY:

REVIEWED BY: Hall

EPA METHOD 8260 ANALYSIS FOR VOLATILE ORGANICS BY GC/MS CONCENTRATION (PPB-ug/kg - Solid)

PROJECT:

MACDERMID - WATERBURY, CT

FILE NO.:

41462

PROJECT MGR.:

T. CARR

SAMPLE ID:

GZ-10, 5-7'

DATE SAMPLED:

2/16/95

MATRIX:

SOLID

DATE TESTED:

2/22/95

LABORATORY #:

C2165

DILUTION FACTOR:

1

| TARGET COMPOUND LIST | | QUANT. | | TARGET COMPOUND LIST | | QUANT. |
|--------------------------------|-------|--------|-----|----------------------------|--------|--------|
| 8260 COMPOUNDS | CONC. | LIMIT | | 8260 COMPOUNDS: | CONC. | LIMIT |
| DICHLORODIFLUOROMETHANE | ND | 10 | - | TETRACHLOROETHENE | ND | 5 |
| CHLOROMETHANE | ND | 10 | Mı | DIBROMOCHLOROMETHANE | ND | 5 |
| VINYL CHLORIDE | ND | 10 | | 1,2-DIBROMOETHANE (EDB) | ND | 10 |
| BROMOMETHANE | В | 10 | | CHLOROBENZENE | ND | 5 |
| CHLOROETHANE | ND | 10 | | 1,1,1,2-TETRACHLOROETHANE | ND | 5 |
| TRICHLOROFLUOROMETHANE | ND | 20 | E | ETHYL BENZENE | ND | 5 |
| ACETONE | ND | 125 | ı | m&p-XYLENES | ND | 5 |
| 1,1-DICHLOROETHENE | ND | 5 | | o-XYLENE | ND | 5 |
| METHYLENE CHLORIDE | ND | 5 | 1 | STYRENE | ND | 5 |
| CARBON DISULFIDE | ND | 10 | ■ E | BROMOFORM | ND | 10 |
| METHYL tert-BUTYL ETHER (MtBE) | ND | 5 | ∭I | SOPROPYLBENZENE | ND | 5 |
| trans-1,2-DICHLOROETHENE | ND | 5 | 1 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 |
| 1,1-DICHLOROETHANE | ND | 5 | 1 | 1,2,3-TRICHLOROPROPANE | ND | 5 |
| VINYL ACETATE | ND | 25 | E | BROMOBENZENE | ND | 5 |
| 2-BUTANONE (MEK) | ND | 125 | r | n-PROPYLBENZENE | ND | 5 |
| 2,2-DICHLOROPROPANE | ND | 5 | 2 | 2-CHLOROTOLUENE | ND | 5 |
| cis-1,2-DICHLOROETHENE | ND | 5 | 1 | 1,3,5-TRIMETHYLBENZENE | ND | 5 |
| CHLOROFORM | ND | 5 | 4 | 4-CHLOROTOLUENE | ND | 5 |
| BROMOCHLOROMETHANE | ND | 5 | t | ert-BUTYLBENZENE | ND | 5 |
| 1,1,1-TRICHLOROETHANE | ND | 5 | 1 | 1,2,4-TRIMETHYLBENZENE | ND | 5 |
| 1,1-DICHLOROPROPENE | ND | 5 | s | sec-BUTYLBENZENE | ND | 5 |
| CARBON TETRACHLORIDE | ND | 5 | p | -ISOPROPYLTOLUENE | ND | 5 |
| 1,2-DICHLOROETHANE | ND | . 5 | 1 | 1,3-DICHLOROBENZENE | ND. | 5 |
| BENZENE | ND | 5 | 1 | ,4-DICHLOROBENZENE | ND | 5 |
| TRICHLOROETHENE | ND | 5 | n | n-BUTYLBENZENE | ND | 5 |
| 1,2-DICHLOROPROPANE | ND | 5 | 1 | ,2-DICHLOROBENZENE | ND | 5 |
| BROMODICHLOROMETHANE | ND | 5 | 1 | ,2-DIBROMO-3-CHLOROPROPANE | ND | 25 |
| DIBROMOMETHANE | ND | 5 | 1 | ,2,4-TRICHLOROBENZENE | ND | 5 |
| 4-METHYL-2-PENTANONE (MIBK) | ND | 5 | ŀ | 1EXACHLOROBUTADIENE | ND | 5 |
| cis-1,3-DICHLOROPROPENE | ND | 5 | ١ | NAPHTHALENE | ND | 5 |
| TOLUENE | ND | 5 | 1 | ,2,3-TRICHLOROBENZENE | ND | 5 |
| trans-1,3-DICHLOROPROPENE | ND | 5 | | SURROGATE | % REC. | LIMITS |
| 1,1,2-TRICHLOROETHANE | ND | 5 | 1 | ,2-DICHLOROETHANE - D4 | 97.8 | 70-121 |
| 2-HEXANONE (MBK) | ND | 10 | Т | OLUENE - D8 | 96.9 | 81-117 |
| 1,3-DICHLOROPROPANE | ND | 5 | 4 | -BROMOFLUOROBENZENE | 105 | 74-121 |

COMMENTS:

ANALYZED BY: (

REVIEWED BY: Hall

10

EPA METHOD 8260 ANALYSIS FOR VOLATILE ORGANICS BY GC/MS CONCENTRATION (PPB-ug/kg - Solid)

PROJECT:

MACDERMID - WATERBURY, CT

FILE NO .:

41462

PROJECT MGR.:

T. CARR

SAMPLE ID:

GZ-11, 10-12'

DATE SAMPLED:

2/16/95

MATRIX:

SOLID

DATE TESTED:

2/23/95

LABORATORY #: C2170 **DILUTION FACTOR:**

1

| p | | | | | | | | |
|--------------------------------|-------|-------|--------|----------------------------|--------|--------|--|--|
| TARGET COMPOUND LIST QUAI | | | | TARGET COMPOUND LIST | | QUANT. | | |
| 8260 COMPOUNDS | CONC. | LIMIT | 11 | 8260 COMPOUNDS: | CONC. | LIMIT | | |
| DICHLORODIFLUOROMETHANE | ND | 10 | T | TETRACHLOROETHENE | ND | 5 | | |
| CHLOROMETHANE | ND | 10 | | DIBROMOCHLOROMETHANE | ND | 5 | | |
| VINYL CHLORIDE | ND | 10 | 1 | ,2-DIBROMOETHANE (EDB) | ND | 10 | | |
| BROMOMETHANE | ND | 10 | | CHLOROBENZENE | ND | 5 | | |
| CHLOROETHANE | ND | 10 | 1 | ,1,1,2-TETRACHLOROETHANE | DN | 5 | | |
| TRICHLOROFLUOROMETHANE | ND | 20 | E | ETHYL BENZENE | ND | 5 | | |
| ACETONE | ND | 125 | Пп | n&p-XYLENES | ND | 5 | | |
| 1,1-DICHLOROETHENE | ND | 5 | o | -XYLENE | ND | 5 | | |
| METHYLENE CHLORIDE | 'ND | 5 | s | STYRENE | ND | 5 | | |
| CARBON DISULFIDE | ND | 10 | В | BROMOFORM | ND | 10 | | |
| METHYL tert-BUTYL ETHER (MtBE) | ND | 5 | 18 | SOPROPYLBENZENE | ND | 5 | | |
| trans-1,2-DICHLOROETHENE | ND | 5 | 1 | ,1,2,2-TETRACHLOROETHANE | ND | 5 | | |
| 1,1-DICHLOROETHANE | ND | 5 | 1 | ,2,3-TRICHLOROPROPANE | ND | 5 | | |
| VINYL ACETATE | ND | 25 | В | ROMOBENZENE | ND | 5 | | |
| 2-BUTANONE (MEK) | ND | 125 | n | -PROPYLBENZENE | ND | 5 | | |
| 2,2-DICHLOROPROPANE | ND | 5 | 2 | -CHLOROTOLUENE | ND | 5 | | |
| cis-1,2-DICHLOROETHENE | ND | 5 | 1 | ,3,5-TRIMETHYLBENZENE | ND | 5 | | |
| CHLOROFORM | ND | 5 | 4 | -CHLOROTOLUENE | ND | 5 | | |
| BROMOCHLOROMETHANE | ND | 5 | te | ert-BUTYLBENZENE | ND | 5 | | |
| 1,1,1-TRICHLOROETHANE | ND | 5 | 1 | ,2,4-TRIMETHYLBENZENE | ND | 5 | | |
| 1,1-DICHLOROPROPENE | ND | 5 | S | ec-BUTYLBENZENE | ND | 5 | | |
| CARBON TETRACHLORIDE | ND | 5 | p | -ISOPROPYLTOLUENE | ND | 5 | | |
| 1,2-DICHLOROETHANE | ND | 5 | 1, | ,3-DICHLOROBENZENE | ND | 5 | | |
| BENZENE | ND | 5 | 1, | ,4-DICHLOROBENZENE | ND | 5 | | |
| TRICHLOROETHENE | ND | 5 | 1888 | -BUTYLBENZENE | ND | 5 | | |
| 1,2-DICHLOROPROPANE | ND | 5 | 1881 · | ,2-DICHLOROBENZENE | ND | 5 | | |
| BROMODICHLOROMETHANE | ND | 5 | 1, | ,2-DIBROMO-3-CHLOROPROPANE | ND | 25 | | |
| DIBROMOMETHANE | ND | 5 | 1, | ,2,4~TRICHLOROBENZENE | ND | 5 | | |
| 4-METHYL-2-PENTANONE (MIBK) | ND | 5 | Н | EXACHLOROBUTADIENE | ND | 5 | | |
| cis-1,3-DICHLOROPROPENE | ND | 5 | N | APHTHALENE | ND | 5 | | |
| TOLUENE | ND | 5 | 1, | ,2,3-TRICHLOROBENZENE | ND | 5 | | |
| trans-1,3-DICHLOROPROPENE | ND | 5 | | SURROGATE | % REC. | LIMITS | | |
| 1,1,2-TRICHLOROETHANE | ND | 5 | 1, | 2-DICHLOROETHANE - D4 | 101 | 70-121 | | |
| 2-HEXANONE (MBK) | ND | 10 | ĮΤ | OLUENE - D8 | 98.8 | 81-117 | | |
| 1,3-DICHLOROPROPANE | ND | _5 | 4- | -BROMOFLUOROBENZENE | 101 | 74-121 | | |

COMMENTS:

ANALYZED BY:

REVIEWED BY:

Hubble

GZA GeoEnvironmental, Inc.

Environmental Chemistry Laboratory 320 Needham St., Newton Upper Falls, MA 02164 LABORATORY ID: MA092 41462.XLs METALS ANALYSIS - TCLP

FINAL DATA

~ ROJECT:

MacDermid Inc.

ROJECT MGR.:

T. Carr

JOB NO:

41462

MATRIX:

(TCLP extract)

GROUP:

R-8

UNITS:

mg/L (ppm)

SAMPLE ID:

GZ-1/S-1

GZ-2/S-2

GZ-3/S-1

GZ-5/S-1

BATCH NO.:

01041,04295

DATE SAMPLED:

1/12-13/95

DATE PREPARED: 1/24/95

DATE ANALYZED: 1/26,2/1/95

| Analyte | METHOD* | CONC. | D.L. | CONC. | D.L. | CONC. | D.L. | CONC. | D.L. |
|---------------|---------|-------|--------|-------|--------|-------|--------|-------|--------|
| Silver (Ag) | 6010 | BDL | 0.007 | BDL | 0.007 | BDL | 0.007 | BDL | 0.007 |
| Arsenic (As) | 6010 | BDL | 0.100 | BDL | 0.100 | BDL | 0.100 | BDL | 0.100 |
| Barium (Ba) | 6010 | 0.395 | 0.003 | 0.538 | 0.003 | 0.714 | 0.003 | 0.197 | 0.003 |
| Cadmium (Cd) | 6010 | BDL | 0.004 | 0.032 | 0.004 | BDL | 0.004 | BDL | 0.004 |
| ıromium (Cr) | 6010 | 0.084 | 0.005 | 0.017 | 0.005 | 0.038 | 0.005 | 0.014 | 0.005 |
| '∟ead (Pb) | 6010 | 0.068 | 0.003 | 0.100 | 0.003 | 1.08 | 0.003 | 0.043 | 0.003 |
| Selenium (Se) | 6010 | BDL | 0.100 | BDL | 0.100 | BDL | 0.100 | BDL | 0.100 |
| Mercury (Hg) | 7471 | BDL | 0.0002 | BDL | 0.0002 | BDL | 0.0002 | BDL | 0.0002 |
| Copper (Cu) | 6010 | BDL | 0.020 | 8.15 | 0.020 | 1.04 | 0.020 | BDL | 0.020 |
| Zinc (Zn) | 6010 | 0.102 | 0.020 | 2.84 | 0.020 | 0.351 | 0.020 | 0.049 | 0.020 |
| Nickel (Ni) | 6010 | BDL | 0.050 | BDL | 0.050 | 0.052 | 0.050 | BDL | 0.050 |

BDL=BELOW DETECTION LIMIT N/A = NOT ANALYZED *DENOTES EPA METHODS

ANALYZED BY:

REVIEWED BY:

GZA GeoEnvironmental, Inc.

Environmental Chemistry Laboratory 320 Needham St., Newton Upper Falls, MA 02164 LABORATORY ID: MA092 41462.xls METALS ANALYSIS - TCLP

FINAL DATA

ROJECT:

MacDermid Inc.

rROJECT MGR.:

T. Carr

JOB NO:

41462

MATRIX:

(TCLP extract)

GROUP:

R-8

UNITS:

mg/L (ppm)

SAMPLE ID:

GZ-6/S-1

BATCH NO.:

01041,04295

DATE SAMPLED:

1/12-13/95

DATE PREPARED: 1/24/95

DATE ANALYZED: 1/26,2/1/95

| Analyte | METHOD* | CONC. | D.L. |
|---------------|---------|-------|--------|
| Silver (Ag) | 6010 | BDL | 0.007 |
| Arsenic (As) | 6010 | BDL | 0.100 |
| Barium (Ba) | 6010 | 0.324 | 0.003 |
| Cadmium (Cd) | 6010 | BDL | 0.004 |
| hromium (Cr) | 6010 | 0.026 | 0.005 |
| Lead (Pb) | 6010 | 0.196 | 0.003 |
| Selenium (Se) | 6010 | BDL | 0.100 |
| Mercury (Hg) | 7471 | BDL | 0.0002 |
| Copper (Cu) | 6010 | 0.149 | 0.020 |
| Zinc (Zn) | 6010 | 0.131 | 0.020 |
| Nickel (Ni) | 6010 | BDL | 0.050 |

BDL=BELOW DETECTION LIMIT N/A = NOT ANALYZED*DENOTES EPA METHODS

ANALYZED BY:

REVIEWED BY:

, GZA GeoEnvironmental, Inc.

Environmental Chemistry Laboratory 320 Needham St., Newton Upper Falls, MA 02164 LABORATORY ID: MA092 41462A.XLS METALS ANALYSIS - TCLP

FINAL DATA

ROJECT:

MacDermid

PROJECT MGR.:

T. Carr

JOB NO:

41462

MATRIX:

AQUEOUS (TCLP extract)

GROUP:

R-8

UNITS:

mg/L (ppm)

SAMPLE ID:

GZ-7

GZ-8 S-6

GZ-8 S-1

BATCH NO.:

02037,03895

DATE SAMPLED:

2/15-16/95

DATE PREPARED: 2/24/95

DATE ANALYZED: 2/27-28,3/30/95/95

| Analyte | METHOD* | CONC. D.L. CONC. D.L. CONC. D.L. |
|---------------|---------|--|
| Silver (Ag) | 6010 | BDL 0.007 BDL 0.007 0.013 0.007 |
| Arsenic (As) | 6010 | BDL 0.005 BDL 0.005 BDL 0.005 |
| Barium (Ba) | 6010 | 0.313 0.003 0.323 0.003 0.439 0.003 |
| Cadmium (Cd) | 6010 | BDL 0.004 BDL 0.004 0.013 0.004 |
| ıromium (Cr) | 6010 | 0.057 0.005 0.154 0.005 0.132 0.005 |
| Lead (Pb) | 6010 | 0.028 0.003 0.064 0.003 0.052 0.003 |
| Selenium (Se) | 6010 | BDL 0.005 BDL 0.005 BDL 0.005 |
| Mercury (Hg) | 7471 | BDL 0.0002 BDL 0.0002 BDL 0.0002 |
| Copper (Cu) | 6010 | BDL 0.020 0.905 0.020 1.39 0.020 |
| Zinc (Zn) | 6010 | 0.134 0.020 0.198 0.020 0.456 0.020 |
| Nickel (Ni) | 6010 | BDL 0.054 BDL 0.054 0.142 0.054 |

BDL=BELOW DETECTION LIMIT N/A = NOT ANALYZED*DENOTES EPA METHODS

ANALYZED BY:

REVIEWED BY:

GZA GeoEnvironmental, Inc.

Environmental Chemistry Laboratory 320 Needham St., Newton Upper Falls, MA 02164 LABORATORY ID: MA092 41462A.XLS METALS ANALYSIS - TCLP

GZ-10

GZ-11

FINAL DATA

ROJECT:

MacDermid

rROJECT MGR.:

T. Carr

JOB NO:

41462

MATRIX:

AQUEOUS (TCLP extract)

GROUP:

R-8

UNITS:

mg/L (ppm)

SAMPLE ID:

BATCH NO.:

02037,03895

DATE SAMPLED:

DATE PREPARED: 2/24/95

2/15-16/95

DATE ANALYZED: 2/27-28,3/30/95/95

| Analyte | METHOD* | CONC. D.L. CONC. D.L. CONC. D.L. |
|---------------|---------|-------------------------------------|
| Silver (Ag) | 6010 | BDL 0.007 BDL 0.007 BDL 0.007 |
| Arsenic (As) | 6010 | BDL 0.005 BDL 0.005 BDL 0.005 |
| Barium (Ba) | 6010 | 0.785 0.003 0.341 0.003 0.655 0.003 |
| Cadmium (Cd) | 6010 | 0.015 0.004 0.011 0.004 0.018 0.004 |
| romium (Cr) | 6010 | 0.642 0.005 0.036 0.005 0.155 0.005 |
| Lead (Pb) | 6010 | 0.378 |
| Selenium (Se) | 6010 | BDL 0.005 BDL 0.005 BDL 0.005 |
| Mercury (Hg) | 7471 | BDL 0.0002 BDL 0.0002 BDL 0.0002 |
| Copper (Cu) | 6010 | 3.36 0.020 0.508 0.020 9.12 0.020 |
| Zinc (Zn) | 6010 | 3.29 0.020 0.215 0.020 1.82 0.020 |
| Nickel (Ni) | 6010 | 0.817 0.054 BDL 0.054 1.71 0.054 |

DL=BELOW DETECTION LIMIT = NOT ANALYZED OTES EPA METHODS

ANALYZED BY:

REVIEWED BY:

15

GZA GEOENVIRONMENTAL, INC. ENVIRONMENTAL CHEMISTRY LABORATORY 320 NEEDHAM STREET, NEWTON UPPER FALLS, MA 02164 MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 8240/8260 ANALYSIS PURGEABLES IN AQUEOUS AND/OR SOLID MATRIX

QUALITY CONTROL

DATE: 1/18/95 - GILBERT

AQUEOUS

| | MATRIX SPIKE | ACCEPTANCE | DUPLICATE SPIKE | ACCEPTANCE |
|--------------------|--------------|------------|-----------------|------------|
| COMPOUND | RECOVERY (%) | LIMITS (%) | DIFFERENCE (%) | LIMITS (%) |
| 1,1-DICHLOROETHENE | | 60-120 | | 20 |
| TRICHLORETHENE | | 70–130 | | 20 |
| TOLUENE | | 70–125 | | 20 |

SOLID

| | MATRIX SPIKE | ACCEPTANCE | DUPLICATE SPIKE | ACCEPTANCE |
|--------------------|--------------|------------|-----------------|------------|
| COMPOUND | RECOVERY (%) | LIMITS (%) | DIFFERENCE (%) | LIMITS (%) |
| 1,1-DICHLOROETHENE | 105 | 60-120 | 2.90 | 35 |
| BENZENE | 114 | 65–130 | 0.88 | 35 |
| TOLUENE | 112 | 65–125 | 0.00 | 35 |

METHOD BLANK

LABORATORY NO.:

C1924

| TOTAL COM | IPOUNDS DE | TECTED | ND |
|-----------|------------|--------|----|

| SURROGATES | RECOVERY (%) | ACCEPTANCE LIMITS (%) |
|-----------------------|-----------------|--------------------------|
| 1,2-DICHLOROETHANE-D4 | 100 | 76–114 |
| TOLUENE-D8 | 102 | 88-110 |
| 4-BROMOFLUOROBENZENE | 92.9 | 86-115 |

GZA GEOENVIRONMENTAL, INC. ENVIRONMENTAL CHEMISTRY LABORATORY 320 NEEDHAM STREET, NEWTON UPPER FALLS, MA 02164 MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 8240/8260 ANALYSIS PURGEABLES IN AQUEOUS AND/OR SOLID MATRIX

QUALITY CONTROL

DATE: 2/22/95 - GILBERT

AQUEOUS

| | MATRIX SPIKE | ACCEPTANCE | DUPLICATE SPIKE | ACCEPTANCE |
|--------------------|--------------|------------|-----------------|------------|
| COMPOUND | RECOVERY (%) | LIMITS (%) | DIFFERENCE (%) | LIMITS (%) |
| 1,1-DICHLOROETHENE | | 60-120 | | 20 |
| TRICHLORETHENE | | 70–130 | | 20 |
| TOLUENE | | 70-125 | | 20 |

SOLID

| | MATRIX SPIKE | ACCEPTANCE | DUPLICATE SPIKE | ACCEPTANCE |
|--------------------|--------------|------------|-----------------|------------|
| COMPOUND | RECOVERY (%) | LIMITS (%) | DIFFERENCE (%) | LIMITS (%) |
| 1,1-DICHLOROETHENE | 99.9 | 60-120 | 7.26 | 35 |
| TRICHLORETHENE | 109 | 65–130 | 3.74 | 35 |
| TOLUENE | 105 | 65–125 | 5.68 | 35 |

METHOD BLANK

LABORATORY NO.:

C2157

| TOTAL C | OMPOUNDS DET | ECTED | ND |
|---------|--------------|-------|----|

| | RECOVERY | ACCEPTANCE |
|-----------------------|----------|------------|
| SURROGATES | (%) | LIMITS (%) |
| 1,2-DICHLOROETHANE-D4 | 91.6 | 76-114 |
| TOLUENE-D8 | 94.6 | 88-110 |
| 4-BROMOFLUOROBENZENE | 98.8 | 86-115 |

| | | | | | | | | ps | | \mathcal{O} | 19 | | In | , 9 | 4 | <u> </u> | | | |
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| | amples RD | | 0 | 2 6 | 9 | 0 | 0 | | | | INTAI | E / | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | By | Æ | ИĒ | 1,7 | | ENTIS ENTIS 1 06066 |
| 1 | nies Sa | Col- lector's Initials | 3 | 3 | | | | | | | 7F CC | DATE/TIME | 17/95 DATE/TIME | LP/N / / DATE/TIME | DATE/TIME | DATE/TIME | D | | NME D SCI Road CTICUT -7655 |
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| | WHITE COPY - Original (Accompanies Samples) CHAIN-OF-CUSTODY RECORD | Bailer | | | | | ., | | | | TOTAL NUMBER OF CONTAINERS | (a. | 3 | (87) (91 179) | (ə. | (a) | 6 | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | GZA GEOENVIRONMENTAL, INC. ENGINEERS AND SCIENTISTS 27 Nack Road VERNON, CONNECTICUT 06066 (203) 875-7655 FAX (203) 872-2416 |
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| Col- lector's Initials | A.B. 5-1 | /5/ | 0,0 | 300 | 25 | 01 | 707 | /> | 7 | 0/ | // // | | ABER OF CONTAINE | DATE/TIME | DATECTIME | DATE/TIME | DATE/TIME | DATE/TIME | 52A - EC | Walsh | ATT | NVIRONMENTAL, AS AND SCIENTIST | 27 Naek Road VERNON, CONNECTICUT 06066 (203) 875-7655 FAX (203) 872-2416 |
| | | | | ر | | | | | | | | J. J | IOIAL NUN | (Signature) | (Signature) | (Signature) | (Signature) | (Signature) | PATORY: | 1 | Tim | ZA GEOEI ENGINEEI | VERNON |
| Bample I.D. | 2-29, | | | | 62-8 | 6-25 | 6-29 | 22-10 | 27-10 | 11-25 | 11-25 | | | REUNOUISHED BY: (| RELINGUISHED BY: (| RELINQUISHED BY: (| RELINQUISHED BY: (| RELINQUISHED BY: (| ANALYTICAL LABOR | LABORATORY CONT | GZA CONTACT: | Ğ | |
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MATERIAL SAFETY DATA SHEET

Product: : SODA ASH

Page 2 of 5

HVC, Inc.

4. FIRST AID MEASURES

Skin: Remove contaminated clothing and flush affected areas with water. If irritation persists, get medical attention.

Eyes: Flush with plenty of water for at least 15 minutes while holding eyelids apart. If irritation persists, get medical attention.

Inhalation: Remove to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration and get medical attention immediately.

Ingestion: If conscious, give 1-2 glasses of water to dilute. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Get medical attention.

Special Notes: All treatments should be based on observed signs and symptoms of distress in the patient.

5. FIRE FIGHTING MEASURES

Flash Point (degrees F) and Test Method: Not flammable.

Autoignition Temperature: Not applicable.

Flammability Limits in air (% V): Not applicable.

Extinguishing Media: Use media appropriate for surrounding materials.

Special Fire Fighting Procedures: None.

Unusual Fire & Explosion Hazards: If product is involved in a fire, carbon dioxide may evolve.

6. ACCIDENTAL RELEASE MEASURES

Small Spills: Shovel and place in appropriate containers for reuse or disposal. Remaining traces with plenty of water to sewers if local regulations permit.

Large Spills: Collect as much as possible for re-use. Collect remaining material and place in closed containers for disposal, reuse or neutralize with a dilute acid. Flush remaining traces with water to sewers.

Neutralizing Materials: Dilute acids.

MATERIAL SAFETY DATA SHEET

Product: SODA ASH

Page 3 of 5

HVC, Inc.

7. HANDLING AND STORAGE

Handling and Storage Precautions:

Clean up all spills immediately.

Store product in a cool, dry and well ventilated area.

Avoid contact with acids in enclosed areas as carbon dioxide is generated which may displace the oxygen.

Other precautions: Keep containers closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: General ventilation should be adequate in typical applications of this product; if mists are present, use sufficient local ventilation to remove them.

Respiratory Protection: If mists are present, use a NIOSH approved respirator for mists. Respirator use should be in accordance with 29 CFR 1910.134.

Eye Protection: Safety glasses or goggles.

Other Protective Equipment: Neoprene or PVC gloves recommended. Rubber or PVC apron will provide additional protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point @ 760 mm Hg (degrees F): Decomposes

Freezing Point (degrees F): Melts at 1564°.

pH: 11.3 at 1%

Percent volatile by weight (%): Not applicable. Specific Gravity or bulk density: 2.53 at 68°F.

Solubility in Water: Soluble.

Appearance and odor: White, solid briquette.

Vapor Pressure mm Hg @ 20 degrees C: Not applicable.

Vapor Density (Air = 1): Not applicable.

Evaporation Rate (BuAc = 1): Not applicable.

03/14/01 WED 15:59 FAX 203 5/5 5030

CONT SENTICES

MATERIAL SAFETY DATA SHEET

Product: : SODA ASH

Page 4 of 5

HVC, Inc.

10. STABILITY AND REACTIVITY

Product Stability:

Conditions to avoid: Damp or wet storage areas.

Chemical Incompatibility: Acids, water reactive materials, magnesium, aluminum, fluorine, moisture, phosphorus pentoxide

Hazardous Decomposition Products: Carbon dioxide.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

LC 50 – 2300 mg/cu.m/2 hour (rat) LD50 – 4090 mg/kg (rat)

12. ECOLOGICAL INFORMATION

Daphnia Magna 96 hr $LC_{50} = 265 - 565 \text{ mg/L}$ Bluegill sunfish 96 hr $LC_{50} = 300 - 320 \text{ mg/L}$

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Follow all local, state and federal regulations regarding hazardous waste.

14. TRANSPORT INFORMATION

D.O.T. Proper Shipping Name: Not regulated.

D.O.T. Hazard Class: Not applicable

D.O.T. Labels Required: Not applicable

UN/NA Code: Not applicable.

Reportable Quantity Amount: Not applicable.

MATERIAL SAFETY DATA SHEET

Product: : SODA ASH Page 5 of 5 HVC, Inc. 15. REGULATORY INFORMATION Section 313 Supplier Notification: CAS Registry No. Chemical Ingredient Percent Wt. None 16. OTHER INFORMATION Hazardous Material Identification System Rating (HMIS): Health: 0 Flammability: Reactivity: Personal Protection: B

Reason for Issue:

New format.

Prepared by:

Allan T. Cowie

Title:

Technical Director

Approval Date:

10/25/99

Product Code(s):

2802

Disclaimer:

The information contained herein is based on data available to use and is believed to be correct. However, HVC makes no warranty, expressed or implied, regarding the accuracy of this data or the results to be obtained from the use thereof. HVC assumes no responsibility for injury from the use of the product described herein.

N.A. = Not Applicable

N.D. = Not Determined

N.E. = Not Established

Format: 05/16/97

Sodash.doc





MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS NUMBER:

M5420

ISSUE DATE: 10-05-98

PRODUCT NAME: S - 25, SODIUM METASILICATE ANHYDROUS

Manufacturer's

Occidental Chemical Corporation, Occidental Tower

Name and

5005 LBJ Freeway, P.O. Box 809050

Address:

Dallas, TX 75380

(972) 404-3800

24 HOUR EMERGENCY TELEPHONE:

1-800-733-3665 OR 972-404-3228

TO REQUEST AN MSDS:

1-800-699-4970

CUSTOMER SERVICE:

1-800-752-5151

PRODUCT USE:

Detergents, Industrial Cleaners

CHEMICAL NAME: Sodium Metasilicate Anhydrous

CHEMICAL FORMULA: Na2SiO3

SYNONYMS/COMMON NAMES: ANHYDROUS METASILICATE

SODIUM METASILICATE ANHYDROUS

2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS NUMBER / NAME 6834-92-09 Silicic acid (H2SiO3), disodium salt

EXPOSURE LIMITS

PERCENTAGE

PEL: Not Established

VOL

TLV: Not Established

WT

95-99.5

COMMON NAMES:

SODIUM METASILICATE

Listed On (List Legend Below):

00 19 22 23 50 51

LIST LEGEND

00 TSCA INVENTORY

19 PA REQUIREMENT- 3% OR GREATER

22 CANADIAN DOMESTIC SUB LIST

23 NJ REQUIREMENT- 1% OR GREATER

50 PHILIPPINES INVENTORY (PICCS)

51 EINECS



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CURP SERVICES

OCCIDENTAL CHEMICAL CORPORATION

MSDS NUMBER : M5420

PRODUCT NAME: S - 25, SODIUM METASILICATE ANHYDROUS

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3. HAZARDS IDENTIFICATION

***************** EMERGENCY OVERVIEW ********

MAY CAUSE PERMANENT EYE DAMAGE. CORROSIVE TO EYES, SKIN,

RESPIRATORY AND DIGESTIVE TRACT.

White granular solid, no odor.

POTENTIAL HEALTH EFFECTS

ROUTES OF ENTRY:

Ingestion, Inhalation.

TARGET ORGANS:

Eyes, Skin, Respiratory Tract, Gastrointestinal Tract.

IRRITANCY:

Severe, Potentially by all routes of exposure.

SENSITIZING CAPABILITY:

None known.

REPRODUCTIVE EFFECTS:

None known.

CANCER INFORMATION:

None known.

SHORT-TERM EXPOSURE (ACUTE)

INHALATION:

May cause coughing, sneezing or other symptoms of upper respiratory tract irritation. Exposure may result in lung tissue damage due to corrosive effects.

EVES.

Overexposure will cause severe burns and potential permanent damage.

SKIN:

Contact may cause burns and tissue destruction.

Exposure can cause burns which are not immediately painful or visible.

INGESTION:

Can cause severe burns to the mucous membranes of the digestive tract.

REPEATED EXPOSURE (CHRONIC)

No known chronic effects.

CURP SERVICES

PAGE 3 OF 12 10-05-98

MSDS NUMBER : MS420 PRODUCT NAME : S - 25, SODIUM METASILICATE ANHYDROUS

3. HAZARDS IDENTIFICATION (Continued)

SYNERGISTIC MATERIALS:

None known.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

None known.

4. FIRST AID MEASURES

EYES:

IMMEDIATELY FLUSH EYES WITH A DIRECTED STREAM OF WATER for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes within several seconds is essential to achieve maximum effectiveness. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN:

Flush thoroughly with cool water under shower while removing contaminated clothing and shoes. Discard non-rubber shoes. Wash clothing before reuse. GET MEDICAL ATTENTION AS SOON AS POSSIBLE.

INHALATION:

Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If respiration stops, have a trained person administer artificial respiration. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION:

NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. (If available, give several glasses of milk.) If vomiting occurs spontaneously, keep airway clear and give more water. GET MEDICAL ATTENTION IMMEDIATELY.

NOTES TO PHYSICIAN:

No specialized procedures. Treat for clinical symptoms.

5. FIRE FIGHTING MEASURES

Flash Point: Nonflammable

Method: Not Applicable

Autoignition Temperature: Nonflammable

FLAMMABLE LIMITS IN AIR BY % VOLUME

Upper: Not applicable Lower: Not applicable

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CURP SERVICES

OCCIDENTAL CHEMICAL CORPORATION

MSDS NUMBER : MS420

PRODUCT NAME: S - 25, SODIUM METASILICATE ANHYDROUS

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5. FIRE FIGHTING MEASURES (Continued)

EXTINGUISHING MEDIA:

Non-flammable / Non-combustible.

Use agents appropriate for surrounding fire.

FIRE FIGHTING PROCEDURES:

Wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus and full protective clothing.

FIRE AND EXPLOSION HAZARD:

Direct contact with water creates heat and may cause spattering.

SENSITIVITY TO MECHANICAL IMPACT:

Not sensitive.

SENSITIVITY TO STATIC DISCHARGE:

Not sensitive.

6. ACCIDENTAL RELEASE MEASURES

ERSONAL PRECAUTIONS:

Evacuate unnecessary personnel.

Follow protective measures provided under Personal Protection in Section 8.

ENVIRONMENTAL PRECAUTIONS:

Do not flush to sewer.

Spills or releases should be reported, if required, to the appropriate local, state and federal agencies.

METHODS FOR CLEANING UP:

Dry material can be shoveled up, liquid material can be removed with a vacuum truck. Neutralize remaining traces with any dilute inorganic acid (hydrochloric, sulfuric or acetic acid). Flush spill area with water followed by a liberal covering of sodium carbonate. All clean-up material should be removed for proper treatment or disposal. Spills on other than pavement (eg. dirt or sand) may be handled by removing the affected soil and placing in approved containers.

7. HANDLING AND STORAGE

HANDLING:

Wear personal protective equipment as described in Exposure Controls/Personal Protection (Section 8) of the MSDS.

-MSDS NUMBER : MS420

PRODUCT NAME: S . 25, SODIUM METASILICATE ANHYDROUS

PAGE 5 OF 12 10-05-98

7. HANDLING AND STORAGE (Continued)

Do not get in eyes, on skin or clothing.

Avoid breathing airborne particulates; wear respiratory protection when exposure is possible.

Wash contaminated clothing before reuse.

Wash thoroughly with soap and water after handling.

Avoid contact with acids.

SPECIAL MIXING AND HANDLING INSTRUCTIONS:

Do not allow contact with materials as noted in Section 10.

Direct contact with water creates heat and may cause spattering.

Always add product slowly to liquid surface, with constant stirring to assure that product is completely dissolved as it is added to dissipate heat.

STORAGE:

Keep container tightly closed and properly labeled.

Do not store in aluminum container or use aluminum fittings or transfer lines, as flammable hydrogen gas can be generated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Use adequate local exhaust ventilation where dust, mist or spray may be generated.

PERSONAL PROTECTION

RESPIRATORY:

Wear a NIOSH/MSHA approved respirator following manufacturer's recommendations, where airborne contaminants may occur.

EYE/FACE:

Wear chemical safety goggles plus full face shield to protect against contact when appropriate (ANSI 287.1).

SKIN:

Wear protective clothing to minimize skin contact.

Wear chemical resistant gloves such as rubber, neoprene or vinyl.

Wash contaminated clothing and dry before reuse.

OCCIDENTAL CHEMICAL CORPORATION PAGE 6 OF 12
MSDS NUMBER : M5420 10-05-98

| PRODUCT | NAME: | \$ - 25, | SODIUM | METASILICATI | ANHYDRO | US | | |
|---------|-------|----------|--------|--------------|---------|----|--|--|
| | | | | | | | | |

9. EXPOSURE CONTROLS/PERSONAL PROTECTION (Continued)

OTHER:

Emergency shower and eyewash facility should be in close proximity (ANSI Z358.1).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: White granular solid, no odor.

Odor Threshold: Not available

Specific Gravity (Water=1): Not available

Vapor Pressure: Not applicable

Vapor Density (Air=1): Not applicable

Density: 54 - 62 lbs./cu. ft. (loose)

Evaporation Rate: Not applicable

% Volatiles by Wt: Not applicable

Boiling Point: Not applicable

Freezing Point: Not applicable

Melting Point: 1089°C (1992°F)

Solubility in Water (% by wt.): 18

pH: 12.7 in a 1% solution @ 20°C

Octanol/Water Partition Coefficient: Not applicable

Thermal Decomposition Temperature: Not available

Other: Not available

VOC (g/l. by wt.): Not applicable

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:

X STABLE UNSTABLE

REACTS WITH:

AIR OXIDIZERS X METALS

X WATER X ACIDS OTHER
HEAT ALKALIS NONE

CORP SERVICES

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NEW OF A

OCCIDENTAL CHEMICAL CORPORATION

MSDS NUMBER : MS420

PRODUCT NAME: S - 25, SODIUM METASILICATE ANHYDROUS

10. STABILITY AND REACTIVITY (Continued)

HAZARDOUS POLYMERIZATION:

OCCURS

X WILL NOT OCCUR

COMMENTS:

Avoid contact with acids.

Direct contact with water creates heat and may cause spattering.

Prolonged contact with metals, such as aluminum, tin, lead and zinc may produce flammable hydrogen gas.

HAZARDOUS DECOMPOSITION PRODUCTS:

None.

11. TOXICOLOGICAL INFORMATION

Silicic acid (H2SiO3), disodium salt

ACUTE ORAL LD50 :

(rat)

800 mg/kg

PRIMARY SKIN IRRITATION : (rabbit, 24hr)

250 mg (severe)

Product may be considered highly alkaline.

Exposure to this material may be evaluated as:

PEL=2mg/m3 Ceiling as NaOH TLV=2mg/m3 Ceiling as NaOH

Revised

12. ECOLOGICAL INFORMATION

6834-92-0

Silicic acid (H2SiO3), disodium salt

AOUATIC ECOTOX DATA

Fish:

LC50 (96 hr.) (Mosquitofish)

530 mg/L 10:01 FAX 203 575 5630

CORP SERVICES

OCCIDENTAL CHEMICAL CORPORATION

MSDS NUMBER : M5420

PRODUCT NAME: S - 25, SODIUM METASILICATE ANHYDROUS

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1° ECOLOGICAL INFORMATION (Continued)

Invertebrates:

LC50 (48 hr.) (Water Flea)

113 mg/L

LC50 (96 hr.) (Scuć)

160 mg/L

LC50 (28 day) (Polychaete)

210-250 ug/L

TERRESTRIAL ECOTOX DATA

Wildlife:

LD50 (oral) (Mouse)

770 mg/kg

ENVIRONMENTAL FATE DATA

Biotic:

Biodeq.

Inorganic, not subject to biodegradation

Water Sol.

100 %

There is limited information available on the environmental fate and effects of this material. This material has exhibited moderate toxicity to aquatic organisms, while exhibiting slight toxicity to terrestrial organisms. This compound is inorganic and not subject to biodegradation. It is miscible in water, non-volatile, and will not bioaccumulate in organisms. This compound is alkaline and may raise the pH of surface waters with low buffering capacity if spilled. Due caution should be exercised to prevent the accidental release of this material to the environment.

13. DISPOSAL CONSIDERATIONS

Dispose of all waste and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: Corrosive Solid, Basic, Inorganic, NOS

(Sodium Metasilicate Anhydrous)

DOT HAZARD CLASS: \$

DOT IDENTIFICATION ND: UN3262

DOT PACKING GROUP: II

DOT HAZARDOUS SUBSTANCE: Not Applicable

DOT MARINE POLLUTANT(S): Not Applicable

ADDITIONAL DESCRIPTION REQUIREMENT: Not Applicable

MSDS NUMBER : M5420

PRODUCT NAME: S - 25, SODIUM METASILICATE ANHYDROUS

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15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, material safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Material Safety Data Sheet available to your employees.

To aid our customers in complying with regulatory requirements, SARA Title III Hazard Categories for this product are indicated below. If the word "YES" appears next to any category, this product may be reportable by you under the requirements of 40.CFR.370. Please consult those regulations for details.

TSCA:

All components of this product that are required to be on the TSCA inventory are listed on the inventory.

SARA/TITLE III HAZARD CATEGORIES:

Immediate(Acute) Health: YES Reactive Hazard NO Delayed(Chronic) Health: NO Sudden Release of Pressure NO Fire Hazard: NO

HMIS HAZARD RATINGS:

HEALTH HAZARD: 3 FIRE HAZARD: 0 REACTIVITY: 1

STATE REGULATIONS:

See Section 2. COMPOSITION/INFORMATION ON INGREDIENTS list legend for applicable state regulation.

Consult local laws for applicability.

INTERNATIONAL REGULATIONS:

Consult the regulations of the importing country.

CANADA:

WHMIS Hazard Class: B

16. OTHER INFORMATION

For additional non-emergency health, safety or environmental information telephone (972) 404-2076 or write to:

Occidental Chemical Corporation Product Stewardship Department 5005 LBJ Freeway P.O. Box 809050 Dallas, Texas 75380

MSDS NUMBER : MS42D

PRODUCT NAME : S - E SODIUM METASILICATE ANHYDROUS

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16. OTHER INFORMATION (Continued)

MSDS LEGEND:

ACGIH - America: Conference of Governmental Industrial Hygienists

CAS = Chemical Abstracts Service Registry Number

CEILING - Ceiling Limit (15 Minutes)

CEL = Corporate Exposure Limit

OSHA = Occupational Safety and Health Administration

PEL - Permissible Exposure Limit (OSHA)

STEL = Short Term Exposure Limit (15 Minutes)

TDG = Transportation of Dangerous Goods (Canada)

TLV = Thresholf Limit Value (ACGIH)

TWA = Time Weighted Average (8 Hours)

WHMIS = Worker Fazardous Materials Information System (Canada)

* - See Section 3 Hazards Identification - Repeated Exposure (Chronic)
Information

IMPORTANT: The information presented herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of Eur knowledge. NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE, OR OF ANY OTHER KIND, EXPRESS OR IMPLIED, IS MADE REGARDING PERFORMANCE, STABILITY OR OTHERWISE. This information is not intended to be all-inclusive as to the manner and conditions of use, handling and storage. Other factors may involve other or additional safety or performance considerations. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, safe handling and use remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as a recommendation to infringe any existing patents or violate any federal, state or local laws, rules, regulations or ordinances.

17. WARNING LABEL INFORMATION

SIGNAL WORD:

DANGER

HAZARD WARNINGS:

MAY CAUSE PERMARENT EYE DAMAGE.

CORROSIVE TO EYES, SKIN, RESPIRATORY AND DIGESTIVE TRACT.

PRECAUTIONS:

Avoid contact with eyes, skin and clothing.

MSDS NUMBER : MS420 PRODUCT NAME : S - 25, SODIUM METASILICATE ANHYDROUS PAGE 11 OF 12 10-05-98

17. WARNING LABEL INFORMATION (Continued)

Avoid breathing dust, vapors or mist.

Do not swallow.

Use with adequate ventilation.

Wear a NIOSH/MSHA approved respirator, chemical splash goggles, full face shield, protective clothing and chemical resistant gloves.

Wash thoroughly after handling; exposure can cause burns which are not immediately painful or visible.

When making solutions, always follow HANDLING instructions.

Avoid contact with acids.

Prolonged contact with metals, such as aluminum, tin, lead and zinc may produce flammable hydrogen gas.

Keep container tightly closed and properly labeled.

Before using, read Material Safety Data Sheet (MSDS) for this material.

FIRST AID

EYES:

IMMEDIATELY FLUSH EYES WITH A DIRECTED STREAM OF WATER for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes within several seconds is essential to achieve maximum effectiveness. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN:

Flush thoroughly with cool water under shower while removing contaminated clothing and shoes. Discard non-rubber shoes. Wash clothing before reuse. GET MEDICAL ATTENTION AS SOON AS POSSIBLE.

INHALATION:

Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If respiration stops, have a trained person administer artificial respiration. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION:

NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. (If available, give several glasses of milk.) If vomiting occurs spontaneously, keep airway clear and give more water. GET MEDICAL ATTENTION IMMEDIATELY.

IN CASE OF SPILL OR LEAK:

Do not flush to sewer.

03/14/01 WED 16:02 FAX 203 575 5630

CUKY SERVICES

OCCIDENTAL CHEMICAL CORPORATION

MSDS NUMBER : M5420

PRODUCT NAME: S - 25, SODIUM METASILICATE ANHYDROUS

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17 WARNING LABEL INFORMATION (Continued)

Dry material can be shoveled up, liquid material can be removed with a vacuum truck. Neutralize remaining traces with any dilute inorganic acid (hydrochloric, sulfuric or acetic acid). Flush spill area with water followed by a liberal covering of sodium carbonate. All clean-up material should be removed for proper treatment or disposal. Spills on other than pavement (eg. dirt or sand) may be handled by removing the affected soil and placing in approved containers.

Spills or releases should be reported, if required, to the appropriate local, state and federal agencies.

FIRE:

Non-flammable / Non-combustible.

Use extinguishing medium as appropriate for surrounding fire.

HANDLING AND STORAGE:

Direct contact with water creates heat and may cause spattering.

Always add product slowly to liquid surface, with constant stirring to assure that product is completely dissolved as it is added to dissipate heat.

Do not store in aluminum container or use aluminum fittings or ransfer lines, as flammable hydrogen gas can be generated.

DISPOSAL:

Dispose of all waste and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

INFORMATION REQUIRED BY FEDERAL, STATE OR LOCAL REGULATIONS:

This Product Contains:

CAS# NAME

6834-92-0 Silicic acid (H2SiO3), disodium salt

HMIS RATING: HEALTH 3 FLAMMABILITY 0 REACTIVITY 1_

LABEL NUMBER: 0198M5420

For Industrial Use Only





MATERIAL SAFETY DATA SHEET

M1620 41625

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

411638

MSDS NUMBER:

M32413

ISSUE DATE: 01-01-98

PRODUCT NAME:

CAUSTIC SODA ANHYDROUS (ALL GRADES)

Manufacturer's

Occidental Chemical Corporation, Occidental Tower

Name and

5005 LBJ Freeway, P.O. Box 809050

Address :

Dallas, TX 75380

(972) 404-3800

24 HOUR EMERGENCY TELEPHONE:

1-800-733-3665 OR 972-404-3228

TO REQUEST AN MSDS:

1-800-699-4970

CUSTOMER SERVICE :

1-800-752-5151

PRODUCT USE:

Metal Finishing, Industrial Cleaners, Drum

Cleaners, Petroelum Industry, Chemical Processing

CHEMICAL NAME: Sodium hydroxide

CHEMICAL FORMULA: NaOH

SYNONYMS/COMMON NAMES: Sodium hydroxide-dry

2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS NUMBER / NAME

1310-73-2 /Sodium hydroxide (Na(OH))

EXPOSURE LIMITS

PEL: 2 mg/m3, Ceiling TLV: 2 mg/m3, Ceiling

PERCENTAGE

TOV $\mathbf{W}\mathbf{T}$

97-98.20

COMMON NAMES:

CAUSTIC SODA

Listed On (List Legend Below):

00 13 18 21 22 50 51

MSDS NUMBER : M32413

PRODUCT NAME: CAUSTIC SODA ANHYDROUS (ALL GRADES)

PAGE 2 OF 18 01-01-98

2. COMPOSITION/INFORMATION ON INGREDIENTS (Continued)

7647-14-5 Sodium chloride (NaCl)

EXPOSURE LIMITS

PEL: None established TLV: None established PERCENTAGE

VOL WT

COMMON NAMES:

SALT

Listed On (List Legend Below):

00 22 23 50 51

497-19-8 Carbonic acid disodium salt

EXPOSURE LIMITS

PEL:Not Established TLV:Not Established

PERCENTAGE

VOL \mathtt{WT}

0.40-1

COMMON NAMES:

SODA ASH

SODIUM CARBONATE

Listed On (List Legend Below):

00 22 23 50 51

LIST LEGEND

00 TSCA INVENTORY

13 PA ENVIROMENTAL HAZ SUBSTANCE

18 NY HAZARDOUS SUBSTANCES

21 NJ SPECIAL HEALTH HAZ SUB

22 CANADIAN DOMESTIC SUB LIST

23 NJ REQUIREMENT- 1% OR GREATER

50 PHILIPPINES INVENTORY (PICCS) 51 EINECS

3. HAZARDS IDENTIFICATION

* MAY CAUSE BURNS TO THE EYES, SKIN, AND MUCOUS MEMBRANES. MAY CAUSE PERMANENT EYE DAMAGE. INHALATION OF DUST, MIST, OR SPRAY

* CAN CAUSE SEVERE LUNG DAMAGE. CAN REACT VIOLENTLY WITH WATER,

* ACIDS AND OTHER SUBSTANCES.

Clear white solid with no distinct odor

POTENTIAL HEALTH EFFECTS

ROUTES OF ENTRY:

Inhalation, Ingestion.

TARGET ORGANS:

Eyes, Skin, Respiratory Tract, Gastrointestinal Tract.

MSDS NUMBER : M32413

PRODUCT NAME: CAUSTIC SODA ANHYDROUS (ALL GRADES)

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3. HAZARDS IDENTIFICATION (Continued)

IRRITANCY:

:

Liquid, vapors or mist may be irritating to eyes, skin and respiratory tract.

SENSITIZING CAPABILITY:

None known.

REPRODUCTIVE EFFECTS:

None known.

CANCER INFORMATION:

None known.

SHORT-TERM EXPOSURE (ACUTE)

INHALATION:

Exposure to vapor, mist or liquid can produce burns of the respiratory tract.

Severe exposures could result in chemical pneumonia.

EYES:

Contact can cause severe damage including burns and blindness.

The severity of the effects depend on concentration and how soon after exposure the eyes are washed.

SKIN:

Corrosive.

Contact may cause burns and tissue destruction.

Note that irritation may follow an initial latency (delay between the time that the exposure occurs and when the sense of irritation starts). The latent period can vary as much as hours for a dilute solution (0.04%) to minutes with more concentrated solutions (25-50%).

Prolonged or repeated contact, even to dilute concentrations, can cause a high degree of tissue destruction.

INGESTION:

Corrosive.

Severe burns and complete tissue perforation of mucous membranes of mouth, throat and stomach.

REPEATED EXPOSURE (CHRONIC)

No known chronic effects.

SYNERGISTIC MATERIALS:

None known.

MSDS NUMBER : M32413

PRODUCT NAME: CAUSTIC SOD= ANHYDROUS (ALL GRADES)

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3. HAZARDS IDENTIFICATION (Continued)

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

None known.

Revised

4. FIRST AID MEASURES

EYES:

IMMEDIATELY FLUSH EYES WITH A DIRECTED STREAM OF WATER for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes within several seconds is essential to achieve maximum effectiveness. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN:

Flush thoroughly with wool water under shower while removing contaminated clothing and shoes. Discard non-rubber shoes. Wash clothing before reuse. GET MEDICAL ATTENTION AS SOON AS POSSIBLE.

INHALATION:

Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If respiration stops, have a trained person administer artificial respiration. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION:

NEVER GIVE ANYTHING FY MOUTH TO AN UNCONSCIOUS PERSON. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. (If available, give several glasses of milk.) If vomiting occurs spontaneously, keep zirway clear and give more water. GET MEDICAL ATTENTION IMMEDIATELY.

NOTES TO PHYSICIAN:

No specialized procedures. Treat for clinical symptoms.

5. FIRE FIGHTING MEASURES

Flash Point: Non-flammable

Method: Not applicabl≥

Autoignition Temperature: Nonflammable

FLAMMABLE LIMITS IN AIR BY % VOLUME

Upper: Not applicable Lower: Not applicable

EXTINGUISHING MEDIA:

Non-flammable / Non-mombustible.

MSDS NUMBER : M32413

PRODUCT NAME: CAUSTIC SODA ANHYDROUS (ALL GRADES)

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5. FIRE FIGHTING MEASURES (Continued)

Use water spray to keep fire-exposed containers cool.

FIRE FIGHTING PROCEDURES:

Use water to cool containers but avoid getting water into containers. Wear NIOSH/MSHA approved positive-pressure self-contained breathing apparatus and full protective clothing.

FIRE AND EXPLOSION HAZARD:

Direct contact with water can cause a violent exothermic reaction.

SENSITIVITY TO MECHANICAL IMPACT:

Not sensitive.

SENSITIVITY TO STATIC DISCHARGE:

Not sensitive.

₹ ₹

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Evacuate unnecessary personnel.

Follow protective measures provided under Personal Protection in Section 8.

ENVIRONMENTAL PRECAUTIONS:

Contain material and prevent accumulation of dust.

CAUTION: This product may react strongly with acids and water.

NEVER FLUSH TO SEWER.

According to 40 CFR 302 Table 302.4 (CERCLA), environmental releases that exceed the RQ must be reported to the National Response Center by calling 800-424-8802 (202-426-2675) and the State Emergency Response Commission and the Local Emergency Planning Committee (40 CFR 355.40) as appropriate.

METHODS FOR CLEANING UP:

Dry material can be shoveled up, liquid material can be removed with a vacuum truck. Neutralize remaining traces with any dilute inorganic acid (hydrochloric, sulfuric or acetic acid). Flush spill area with water followed by a liberal covering of sodium carbonate. All clean-up material should be removed for proper treatment or disposal. Spills on other than pavement (eg. dirt or sand) may be handled by removing the affected soil and placing in approved containers.

MSDS NUMBER : M32413

PRODUCT NAME: CAUSTIC SODA ANHYDROUS (ALL GRADES)

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7. HANDLING AND STORAGE

HANDLING:

Avoid breathing dust.

Hazardous carbon monoxide gas can form upon contact with food and beverage products in enclosed spaces and can cause death. Follow appropriate tank entry procedures (ANSI Z117.1).

Containers, even those that have been emptied, will retain product residue and vapor and should be handled as if they were full.

Do not get in eyes, on skin or clothing.

Do not take internally

Keep away from acids, to avoid possible violent reaction.

Wash contaminated clothing before reuse.

Wash thoroughly after handling; exposure can cause burns which are not immediately painful or visible.

Wear personal protective equipment as described in Exposure Controls/Personal Protection (Section 8) of the MSDS.

If product is added too rapidly, or without stirring, and becomes concentrated at bottom of mixing vessel, excessive heat may be generated, resulting in DANGEROUS boiling and spattering, and a possible IMMEDIATE AND VIOLENT ERUPTION of highly caustic solution.

SPECIAL MIXING AND HANDLING INSTRUCTIONS:

Considerable heat is generated when product is mixed with water. Therefore, when making solutions always carefully follow these steps:

ALWAYS wear ALL protective clothing described above. NEVER add water to product. ALWAYS add product, with constant stirring, slowly to surface of lukewarm (80-100°F) water, to assure product is being completely dissolved as it is added.

Product can react EXPLOSIVELY with acids, aldehydes, and many other organic chemicals, add product VERY gradually, while stirring constantly. If product is added too rapidly, or without stirring, and becomes concentrated at bottom of mixing vessel, excessive heat may be generated, resulting in DANGEROUS boiling and spattering, and a possible IMMEDIATE AND VIOLENT ERUPTION of highly caustic solution.

ALWAYS empty and clean containers of all residues before adding product, to avoid possible EXPLOSIVE reaction between product and unknown residue.

Returnable containers should be shipped in accordance with supplier's recommendations. Return shipments should comply with all federal, state, and DOT regulations. All residue should be removed from containers prior to disposal.

Avoid contact with aluminum, tin, zinc, and alloys containing these metals. Avoid contact with leather, wool, acids, organic halogen compounds and organic nitro compounds.

MSDS NUMBER : M32413

PRODUCT NAME: CAUSTIC SODA ANHYDROUS (ALL GRADES)

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7. HANDLING AND STORAGE (Continued)

STORAGE:

Keep container tightly closed and properly labeled.

Keep container closed except when transferring material.

Store in a cool, ventilated area away from incompatible materials (see Section 10).

Hazardous carbon monoxide gas can form upon contact with reducing sugars and food and beverage products in enclosed spaces and can cause death. Follow appropriate tank entry procedures (ANSI Z117.1).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

No special ventilation required under normal use.

NOTE: Where carbon monoxide may be generated, special ventilation may be required.

Where engineering controls are not feasible use adequate local exhaust ventilation wherever mist, spray or vapor may be generated.

PERSONAL PROTECTION

RESPIRATORY:

Respiratory protection is not required under normal use.

Wear a NIOSH/MSHA approved respirator following manufacturer's recommendations, where airborne contaminants may occur.

EYE/FACE:

Wear chemical safety goggles. (ANSI Z87.1)

SKIN:

4 10

Wear chemical resistant gloves such as rubber, neoprene or vinyl.

Wash contaminated clothing and dry before reuse.

Wear protective clothing to minimize skin contact.

OTHER:

Standard work clothing closed at the neck and wrists.

Discard shoes that cannot be decontaminated.

Emergency shower and eyewash facility should be in close proximity (ANSI Z358.1).

MSDS NUMBER : M32413

PRODUCT NAME: CAUSTIC SODA ANHYDROUS (ALL GRADES)

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Clear white solid with no distinct odor

Odor Threshold: Not applicable

Specific Gravity (Water=1): 2.13 @ 20°C

Vapor Pressure: 42mm Hg @ 1000°C

Vapor Density (Air=1): Not Applicable

Density: Not available

Evaporation Rate: Not applicable

% Volatiles by Wt: 0

Boiling Point: 1388°C @ 760 mm Hg

Freezing Point: 318°C

Melting Point: Not available

Solubility in Water (% by wt.): Completely soluble

pH: 0.01 moles/liter has pH 12.0

Octanol/Water Partition Coefficient: Not available

Thermal Decomposition Temperature: Not available

Other: COEFFICIENT WATER/OIL DISTRIBUTION: Not determined

VOC (g/l. by wt.):

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:

X STABLE UNSTABLE

REACTS WITH:

XAIROXIDIZERSXMETALSXWATERXACIDSXOTHERHEATALKALISNONE

HAZARDOUS POLYMERIZATION:

OCCURS X WILL NOT OCCUR

COMMENTS:

Avoid direct contact with water.

MSDS NUMBER : M32413

PRODUCT NAME: CAUSTIC SODA ANHYDROUS (ALL GRADES)

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10. STABILITY AND REACTIVITY (Continued)

Product is corrosive to tin, aluminum, zinc and alloys containing these metals and will react with these metals in powder form. Avoid contact with leather, wool, acids, organic halogen compounds, or organic nitro compounds. Hazardous carbon monoxide gas can form upon contact with reducing sugars, food and beverage products in enclosed spaces and can cause death. Follow appropriate tank entry procedures.

See Handling and Storage (Section 7).

HAZARDOUS DECOMPOSITION PRODUCTS:

None.

11. TOXICOLOGICAL INFORMATION

1310-73-2 Sodium hydroxide (Na(OH))

ACUTE DERMAL LD50 : (rabbit) 1350 mg/kg

PRIMARY SKIN IRRITATION : (rabbit) severe

PRIMARY EYE IRRITATION : (rabbit) severe

497-19-8 Carbonic acid disodium salt

ACUTE ORAL LD50 : (rat) 4090 mg/kg

ACUTE INHALATION LC50: (rat, 2hr) 2300 mg/m3

PRIMARY SKIN IRRITATION: (rabbit, 24hr) mild

PRIMARY EYE IRRITATION: (xabbit 24hr) moderate

PRIMARI ELE IRRITATION : (SADDIC) 2411) MODELACE

7647-14-5 Sodium chloride (NaCl)

ACUTE ORAL LD50 : (xat) 3000 mg/kg

PRIMARY SKIN IRRITATION / (rabbit) mild

PRIMARY EYE IRRITATION: (rabbit) moderate

160

99

125

180

mg/L

mq/L

mg/L

mg/L

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MSDS NUMBER : M32413

PRODUCT NAME : CAUSTIC SODA ANHYDROUS (ALL GRADES)

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12. ECOLOGICAL INFORMATION

| 1310-73-2 | Soaiui | m nyaroxiae (r | Na(OH)) |
|---------------|----------|----------------|----------|
| AQUATIC Fish: | ECOTOX I | ATAC | |
| | hr.) | (Goldfish) |) |
| LC50 (48 | hr.) | (Bluegill | sunfish) |
| LC50 (96 | hr.) | (Mosquito | fish) |
| | | | |

(Carp)

NOEC (168 hr.) (Goldfish, Bass) 50 mg/L

Invertebrates:

LC100(24 hr.)

Lethal(48 hr.) (Water flea) 100 mg/L

Lethal(48 hr.) (Midge) 700 mg/L

Amphibians:

No data available

Plants:

No data available

TERRESTRIAL ECOTOX DATA

Wildlife:

LD50(interperitoneal) (Mouse as surrogate) 40 mg/Kg

LDLo (Oral) (Rabbit as surrogate) 500 mg/Kg

Plants:

No data available

ENVIRONMENTAL FATE DATA

Biotic:

BOD

NaOH has no biological oxygen demand

Abiotic:

No data available

There is limited information available on the environmental fate and effects of sodium hydroxide (NaOH). Laboratory toxicity data indicate that NaOH is moderately toxic to aquatic and terrestrial organisms. The primary mode of action is due the corrosive nature of this chemical and its tendency to increase pH in poorly buffered environments. Aquatic organisms become increasingly stressed as pH exceeds 9, with many aquatic species being intolerant of pH levels in excess of 10. Increased pH due to the introduction of NaOH into aquatic environments may lead to the precipitation of essential micronutrients. Exposed terrestrial species would be subject to skin irritation and burns due to the corrosive nature of this material. Due caution should be exercised to prevent the accidental release of this material to aquatic or terrestrial environments.

7647-14-5 Sodium chloride (NaCl)

AQUATIC ECOTOX DATA

Fish:

LC50 (96 hr.) (Fathead minnow) 7,650 mg/L

LC50 (96 hr.) (Bluegill sunfish) 12,946 mg/L

MSDS NUMBER : M32413

PRODUCT NAME: CAUSTIC SODA ANHYDROUS (ALL GRADES)

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12. ECOLOGICAL INFORMATION (Continued)

| Invertebrates: LC50 (48 hr.) | (Water flea) | 3,310 | mg/L |
|---------------------------------|--|-------------|-------|
| LC50 (48 hr.) | (Mosquito larva) | 10,200 | mg/L |
| EC50 (48 hr.) | (Pond snail) | 3,388 | mg/L |
| *mean | (Water flea) value for five laborat (Water flea) | ory test | B |
| | value for five laborat | | |
| Amphibians: Mortality(5 day) | (Frog) 46.66% (* concentration as Cl | @1,800) | mg/L* |
| Mortality(5 day) | (Frog) 46.66% (* concentration as Na | @1,200 | mg/L* |
| Plants: EC50 (32 day) | (Water-milfoil) 5,962 | -8,183 | mg/L |
| TERRESTRIAL ECOT | COX DATA | | |
| | (Rat as surrogate) | 3,000 | mg/Kg |
| Plants: | No data available | | |

ENVIRONMENTAL FATE DATA

Sodium chloride (NaCl) is a naturally occurring inorganic salt in surface waters, groundwater and the earth's crust. Biological systems typically maintain a necessary osmotic balance of critical salts including sodium chloride. The tolerance of aquatic species to NaCl is variable depending upon whether the organism is freshwater or marine, or if the organism is capable of moving between freshwater and marine environments. In general NaCl has low to moderate toxicity to aquatic or terrestrial species. Continuous discharge of salt to freshwater environments can lead to increased salinity over time. Bulk releases could impact salt intolerant aquatic species and sessile terrestrial lifeforms. Due care should be taken to avoid the accidental release of this material to aquatic or terrestrial environments.

497-19-8 Carbonic acid disodium salt

| AQUATIC ECOTOX Fish: | DATA | | |
|---------------------------------|-----------------------|-----------|------|
| LC50 (96 hr.) | (Bluegill sunfish) | 140-180 | mg/L |
| LC50 (96 hr.) | (Mosquitofish) | 320-420 | mg/L |
| BCF | No data available | | |
| Invertebrates: LC50 (48 hr.) | (Water flea) | 115-320 | mg/L |
| LC50 (96 hr.) | (Scud) | 28-38 | mg/L |
| ኒር50 (96 hr) | (Tubellarian flatworn | n)148-193 | mg/L |

MSDS NUMBER : M32413

PRODUCT NAME: CAUSTIC SODA ANHYDROUS (ALL GRADES)

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12. ECOLOGICAL INFORMATION (Continued)

Amphibians:

No data available

Plants:

LC50 (5 day) (Diatom) 105-137 mg/L

TERRESTRIAL ECOTOX DATA

Wildlife:

LD50 (oral) (Rat as surrogate) 2.88 g/Kg

Plants:

No data available

ENVIRONMENTAL FATE DATA

There is limited information available on the environmental fate and effects of sodium carbonate (carbonic acid, disodium salt). Limited laboratory toxicity test data indicate that it is moderately toxic to aquatic and terrestrial organisms. Sodium carbonate (Na2CO3) is a contributor to water hardness, and is a component of the buffering capacity of aquatic systems. This material will readily dissociate in water, where the equilibrium distribution of inorganic carbon (CO2, HCO3, and CO3) is based on pH. Due caution should be exercised to avoid the accidental release of this material to aquatic or terrestrial environments.

13. DISPOSAL CONSIDERATIONS

Recovery and reuse, rather than disposal, should be the ultimate goal of handling efforts.

Dispose of all waste and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

Ensure that all responsible federal, state, and local agencies receive proper notification of spill and disposal methods.

Shipments of waste materials may be subject to manifesting requirements per applicable regulations. Appropriate disposal will depend on the nature of each waste material and should be done by a competent and properly permitted contractor.

The materials resulting from clean-up operations may be hazardous wastes and, therefore, subject to specific regulations. Package, store, transport, and dispose of all (clean-up) materials and any contaminated equipment in accordance with all applicable federal, state, and local regulations.

14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: Sodium Hydroxide, Solid

DOT HAZARD CLASS: 8

MSDS NUMBER : M32413

PEODUCT NAME: CAUSTIC SODA ANHYDROUS (ALL GRADES)

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14. TRANSPORT INFORMATION (Continued)

DOT IDENTIFICATION NO: UN1823

DOT PACKING GROUP: II

DOT HAZARDOUS SUBSTANCE: RQ 1,000 Lbs. (Sodium Hydroxide)

DOT MARINE POLLUTANT(S): Not Applicable

ADDITIONAL DESCRIPTION REQUIREMENT: Not Applicable

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, material safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Material Safety Data Sheet available to your employees.

To aid our customers in complying with regulatory requirements, SARA Title III Hazard Categories for this product are indicated below. If the word "YES" appears next to any category, this product may be reportable by you under the requirements of 40.CFR.370. Please consult those regulations for details.

TSCA:

`*•<u>•</u>•]1

All components of this product that are required to be on the TSCA inventory are listed on the inventory.

SARA/TITLE III HAZARD CATEGORIES:

Immediate (Acute) Health: YES Reactive Hazard YES Delayed (Chronic) Health: NO Sudden Release of Pressure NO NO

HMIS HAZARD RATINGS:

HEALTH HAZARD: 3 FIRE HAZARD: 0 REACTIVITY: 2

STATE REGULATIONS:

See Section 2. COMPOSITION/INFORMATION ON INGREDIENTS list legend for applicable state regulation.

INTERNATIONAL REGULATIONS:

Consult the regulations of the importing country.

CANADA:

WHMIS Hazard Class: D1B, E

OCCIDENTAL CHEMICAL CORPORATION

MSDS NUMBER : M32413

PRODUCT NAME : CAUSTIC SODA ANHYDROUS (ALL GRADES)

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16. OTHER INFORMATION

For additional non-emergency health, safety or environmental information telephone (972) 404-2405 or write to:

Occidental Chemical Corporation Product Stewardship Department 5005 LBJ Freeway P.O. Box 809051 Dallas, Texas 75380

MSDS LEGEND:

ACGIH = American Cofference of Governmental Industrial Hygienists

CAS = Chemical Abstracts Service Registry Number

CEILING = Ceiling Limit (15 Minutes)

CEL - Corporate Exposure Limit

OSHA - Occupational Safety and Health Administration

PEL = Permissible Exposure Limit (OSHA)

STEL = Short Term Exposure Limit (15 Minutes)

TDG = Transportation of Dangerous Goods (Canada)

TLV - Threshold Limit Value (ACGIH)

TWA - Time Weightec Average (8 Hours)

WHMIS - Worker Hazarāous Materials Information System (Canada)

* = See Section 3 Hazards Identification - Repeated Exposure(Chronic)
Information

The information presented herein, while not guaranteed, IMPORTANT: was prepared by competent technical personnel and is true and accurate to the best of our knowledge. NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE, OR OF ANY OTHER KIND, EXPRESS OR IMPLIED, IS MADE REGARDING PERFORMANCE, STABILITY OR OTHERWISE. This information is not intended to be all-inclusive as to the manner and conditions of use, handling and storage. Other factors may involve other or additional safety or performance considerations. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, safe handling and use remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as a recommendation to infringe any existing patents or violate any federal, state or local laws, rules, regulations or ordinances.

This Material Safety Data Sheet (MSDS) covers the following materials:

- DIAPHRAGM NO. 2 FLIKE
- BEADS
- SOLID
- CAUSTIC SODA-DIAPERAGM COMPOUNDER
- CAUSTIC SODA RAYON NO. 2 FLAKE
- CAUSTIC SODA RAYON NO. 4 FLAKE
- CAUSTIC SODA-SOLID
- CAUSTIC SODA-DIAPERAGM NO. 2 FLAKE

-OCCIDENTAL CHEMICAL CORPORATION

MSDS NUMBER : M32413

PLODUCT NAME: CAUSTIC SODA ANHYDROUS (ALL GRADES)

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16. OTHER INFORMATION (Continued)

- CAUSTIC SODA-BEADS

- CAUSTIC SODA- DIAPHRAGM NO. 4 FLAKE

Revised

17. WARNING LABEL INFORMATION

SIGNAL WORD:

DANGER

HAZARD WARNINGS:

MAY CAUSE BURNS TO THE EYES, SKIN, AND MUCOUS MEMBRANES.

MAY CAUSE PERMANENT EYE DAMAGE.

INHALATION OF DUST, MIST, OR SPRAY CAN CAUSE SEVERE LUNG DAMAGE.

CAN REACT VIOLENTLY WITH WATER, ACIDS AND OTHER SUBSTANCES.

PRECAUTIONS:

Avoid contact with eyes, skin and clothing.

Avoid breathing dust, vapors or mist.

Do not swallow.

Use with adequate ventilation and wear respiratory protection when exposure to dust, mist, or spray is possible.

Wear safety glasses with side shields or chemical splash goggles, protective clothing and chemical resistant gloves.

Wash thoroughly after handling; exposure can cause burns which are not immediately painful or visible.

Keep container tightly closed and properly labeled.

Product can react violently with water, acids and other substances. See Handling and Storage (Section 7) of the MSDS for instructions before using.

Avoid contact with aluminum, tin, zinc, and alloys containing these metals. Avoid contact with leather, wool, acids, organic halogen compounds and organic nitro compounds.

Hazardous carbon monoxide gas can form upon contact with food and beverage products in enclosed spaces and can cause death. Follow appropriate tank entry procedures (ANSI Z117.1).

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MSDS NUMBER : M32413

PRODUCT NAME : CAUSTIC SOLA ANHYDROUS (ALL GRADES)

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17. WARNING LABEL INFORMATION (Continued)

FIRST AID

EYES:

IMMEDIATELY FLUSH EYES WITH A DIRECTED STREAM OF WATER for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes within several seconds is essential to achieve maximum effectiveness. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN:

Flush thoroughly with cool water under shower while removing contaminated clothing and shoes. Discard non-rubber shoes. Wash clothing before reuse. GET MEDICAL ATTENTION AS SOON AS POSSIBLE.

INHALATION:

Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If respiration stops, have a trained person administer artificial respiration. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION:

NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. (If available, give several glasses of milk.) If vomiting occurs spontaneously, keep airway clear and give more water. GET MEDICAL ATTENTION IMMEDIATELY.

IN CASE OF SPILL OR LEAK:

Leaks should be stopped.

CAUTION: This product may react strongly with acids and water.

Scoop or sweep up all spilled product and other contaminated material and place in marked disposal containers

Neutralize residue with dilute acid and flush spill area with water followed by a liberal covering of sodium carbonate.

Dispose of wash water and spill by-products according to federal, state and local regulations.

Spills of 1000 pounds or more must be reported to the National Response Center, 1-800-424-8802.

State and local regulations may have additional reporting requirements, check with the proper state and local authorities.

Wear neoprene or rubber gloves.

FIRE:

Material does not burn.

Use extinguishing medium as appropriate for surrounding fire.

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MSDS NUMBER : M32413

PRODUCT NAME: CAUSTIC SODA ANHYDROUS (ALL GRADES)

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17. WARNING LABEL INFORMATION (Continued)

HANDLING AND STORAGE:

Considerable heat is generated when product is mixed with water. Therefore, when making solutions always carefully follow these steps:

ALWAYS wear ALL protective clothing described above. NEVER add water to product. ALWAYS add product, with constant stirring, slowly to surface of lukewarm (80-100°F) water, to assure product is being completely dissolved as it is added.

Product can react EXPLOSIVELY with acids, aldehydes, and many other organic chemicals, add product VERY gradually, while stirring constantly. If product is added too rapidly, or without stirring, and becomes concentrated at bottom of mixing vessel, excessive heat may be generated, resulting in DANGEROUS boiling and spattering, and a possible IMMEDIATE AND VIOLENT ERUPTION of highly caustic solution.

ALWAYS empty and clean containers of all residues before adding product, to avoid possible EXPLOSIVE reaction between product and unknown residue.

Returnable containers should be shipped in accordance with supplier's recommendations. Return shipments should comply with all federal, state, and DOT regulations. All residue should be removed from containers prior to disposal.

Containers that have been emptied, will retain product residue and vapor and should be handled as if they were full.

DISPOSAL:

A spill or release of this material may trigger the emergency release reporting requirements under SARA, Title III (40 CFR, Part 355) and/or CERCLA (40 CFR, Part 300). State or local reporting requirements may differ from federal requirements. Consult counsel for further guidance on your responsibilities under these laws.

Material that cannot be reused or chemically reprocessed should be disposed of in a manner meeting government regulations.

Always package, store, transport and dispose of all waste and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

Appropriate disposal will depend on the nature of each waste material and should be done by a competent and properly permitted contractor.

INFORMATION REQUIRED BY FEDERAL, STATE OR LOCAL REGULATIONS:

This Product Contains:

NAME

C45#

| CAS# | 14.4 |
|--------------|--------------------------------------|
| 1310-73-2 | Sodium hydroxide (Na(OH)) |
| 7647-14-5 | Sodium chloride (NaCl) |
| 497-19-8 | Carbonic acid disodium salt |
| HMIS RATING: | HEALTH 3 FLAMMABILITY 0 REACTIVITY 2 |

03/14/01 WED 16:08 FAX 203 575 5630

CORP SERVICES

Ø 036

OCCIDENTAL CHEMICAL CORPORATION

MSDS NUMBER : M32413
PRODUCT NAME : CAUSTIC SODA ANHYDROUS (ALL GRADES)

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17. WARNING LABEL INFORMATION (Continued)

LABEL NUMBER: 0198M32413

For Industrial Use Only

Date: March 16, 2001 Rev. No. 0

APPENDIX K

DECEMBER 1994 STEELE BROOK/NAUGATUCK RIVER SEDIMENT SAMPLING RESULTS

e\rdm\mac\mac-0036-ca-aocs

HRP

Associates, Inc.

HRP

ASSOCIATES, INC.

December 20, 1994

CERTIFIED MAIL

Ms. Michelle DiNoia
Bureau of Water Management
Department of Environmental Protection
79 Elm Street
Hartford, Connecticut 06106

RE: RESULTS OF SEDIMENT SAMPLES COLLECTED FROM THE STEELE BROOK AND NAUGATUCK RIVER FOLLOWING THE CLEAN-UP OF SPILLED COPPER ETCHANT SOLUTION, MacDERMID, INC., 526 HUNTINGDON AVENUE, WATERBURY, CONNECTICUT (HRP #MAC-0013.RC)

Dear Ms. DiNoia:

Enclosed for your review is a copy of the report entitled "Steele Brook/Naugatuck River Sediment Sampling Results" dated December 1994. As indicated on page 1 of this report, the sediment sampling activities were conducted in accordance with the telephone conversation we had on November 15, 1994.

If you have any questions, please contact me at (203) 793-6899.

Sincerely,

HRP ASSOCIATES, INC.

Fuchad & nulle

Richard D. McFee, P.E.

Associate

RDM/cpk Enclosure

cc: Cherrie Gillis, MacDermid, Inc.

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STEELE BROOK/NAUGATUCK RIVER SEDIMENT SAMPLING RESULTS

MACDERMID, INC. 526 HUNTINGDON AVENUE WATERBURY, CONNECTICUT 06720

HRP #MAC-0013.RC

DECEMBER 1994

Prepared By:

David T. Faist Project Engineer

Richard D. McFee, P.E. Associate

Submitted To:

Ms. Cherrie Gillis MacDermid, Inc. 245 Freight Street Waterbury, Connecticut 06702 Submitted By:

HRP Associates, Inc.
Engineering & Geology
167 New Britain Avenue
Plainville, Connecticut 06062

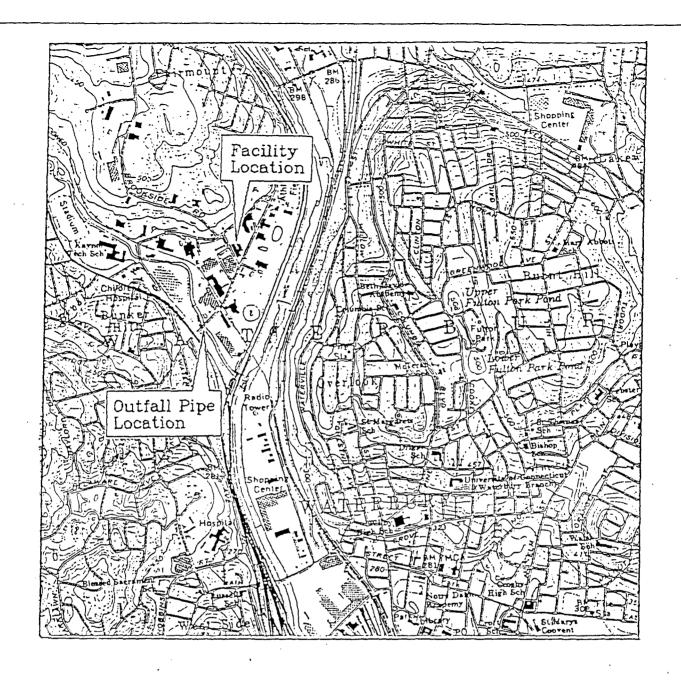
HRP

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1.0 INTRODUCTION

This report details the brook and river sediment sampling activities and results of samples collected from Steele Brook and the Naugatuck River in Waterbury, CT by HRP Associates on November 18 and 23, 1994. HRP's sediment sampling activities were performed in accordance with the conversation with Ms. Michelle DiNoia of the Connecticut D.E.P. on November 15, 1994 regarding the spill of approximately 1500 gallons of copper etchant to the Steele Brook. Figure 1 illustrates the location of the MacDermid plant located at 526 Huntingdon Avenue and the outfall location of the stormwater system which received the spilled copper etchant solution.



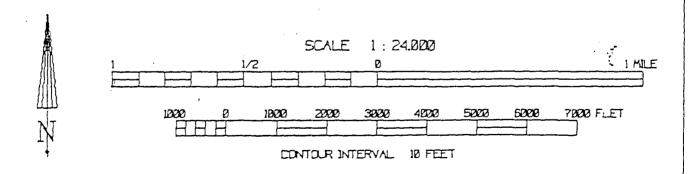
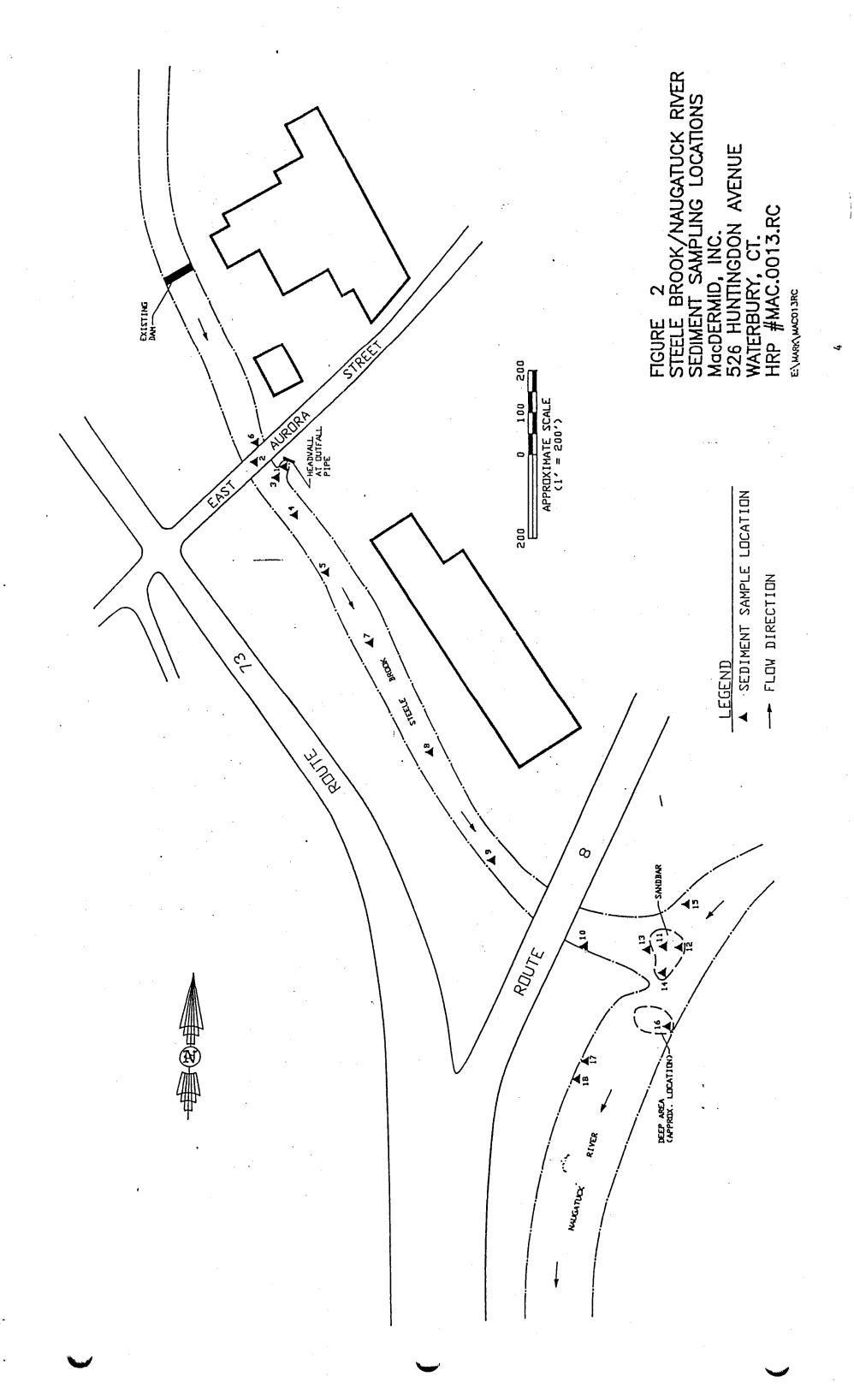


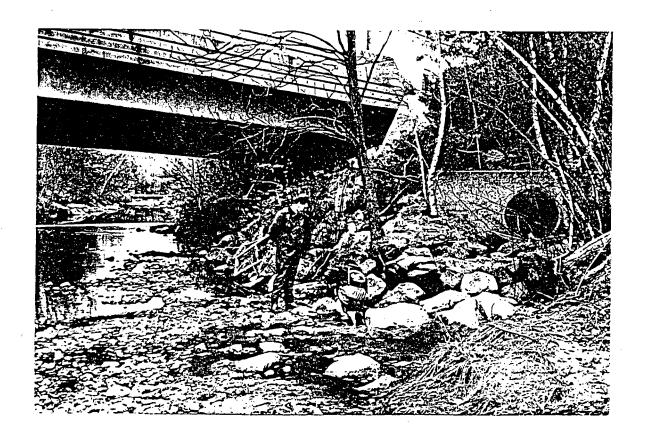
FIGURE 1
SITE LOCATION
MACDERMID, INC.
528 HUNINGDON AVENUE
WATERBURY CONNECTION
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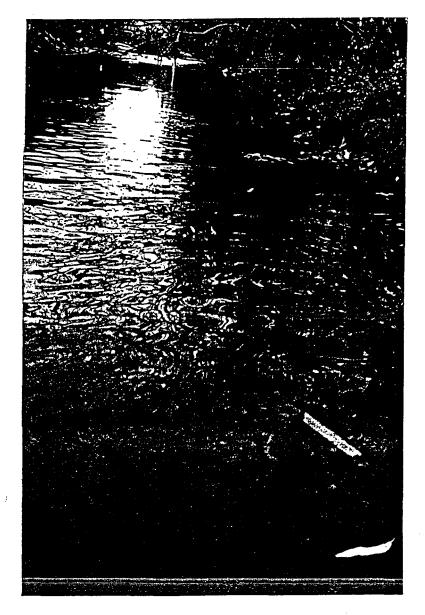
location #3. From the hook shaped sand bar located where Steele Brook and the Naugatuck River meet a total of four sediment samples (#11-#14) were collected. Sample #11 was collected from the top of the sandbar, sample #12 was collected on the eastern side of the sandbar, sample #13 was collected from the bottom of the pool before the sandbar, and sample #14 was collected on the southern side (i.e. downriver side of the sandbar). Sample #15, a background sample, was collected in the Naugatuck River to the north of Steele Brook's intersection with the Naugatuck River.

The following three pages show photographs of Steele Brook and its intersection with the Naugatuck River taken on November 18, 1994 during the first day of sampling activities.

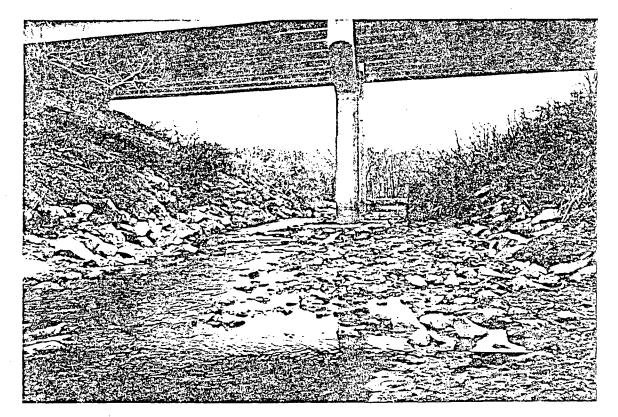
On November 23, 1994 David Faist and John Goodno of HRP Associates were on-site to complete sampling of the deep pool area and downstream sampling in the Naugatuck River. A flat bottomed rowboat was used to move around in the Naugatuck River and a 10 ft. long stainless steel hand auger was used to collect sediment samples as well as probe for depth measurements. In order to identify the deep pool area, HRP moved downstream from side to side, measuring the depth to the bottom. After rowing downstream approximately 650 ft. from the Steele Brook intersection, the deepest area was found to be 100 feet downstream to the south of the hook shaped sandbar. This deep area (as shown on Figure 2) was assumed to be the deep pool area mentioned by the CT-DEP. The description of the deep pool given by the CT-DEP



Sampling location #1 at outfall pipe to Steele Brook



Sampling location #8 looking upstream at Steele Brook



Sample location #9 looking downstream of Steele Brook at Route 8 overpass



Looking downstream of Steele Brook at intersaction of Naugatuck River

referenced only a deep pool located downstream of the Steele Brook intersection with a large piece of machinery or car located below the water's surface in this area. Our site investigation revealed no discarded large machinery in the river or deeper location in the 650 ft. stretch of river below the Steele Brook intersection. Therefore sample #16 was collected from the deep pool identified above. Samples #17 and #18 were both collected downstream 150 ft. and 200 ft., respectively, from the identified deep pool.

2.2 Sediment Sampling Results

All of the sediment samples collected on November 18 and 23, 1993 were submitted to a State of Connecticut certified laboratory for analysis of copper, lead, nickel, and zinc by mass analysis. These results are presented on Table 1. Copies of the laboratory reports are provided in Appendix A.

TABLE 1

STEELE BROOK/NAUGATUCK RIVER SEDIMENT SAMPLING RESULTS

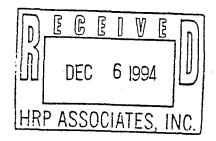
MacDermid, Inc. 526 Huntingdon Avenus Waterbury, Connecticut

| | | Waterbury, Connecticut Sampling | Parameters | | | | |
|-----------------|----------------|---------------------------------|--------------|--------------|--|--|--|
| a I I ata | Copper (mg/kg) | Nickel (mg/kg) | Lead (mg/kg) | Zinc (mg/kg) | | | |
| Sample Location | 1,290 | 22.6 | 69.0 | 195 | | | |
| 1 | 45.4 | 10.0 | 16.0 | 76.0 | | | |
| 2 | 441 | 9.3 | 12.7 | 90.1 | | | |
| 3 | 117 | 8.7 | 16.2 | 64.7 | | | |
| 4 | 128 | 21.8 | 36.5 | 74.5 | | | |
| 5 | 141 | 15.3 | 15.8 | 92.1 | | | |
| 6 | 81.7 | 18.7 | 12.2 | 62.1 | | | |
| 7 | 58.9 | 7.3 | 11.4 | 50.0 | | | |
| 8 | | 9.8 | 13.2 | 55.6 | | | |
| g | 168 | 10.4 | 10.6 | 46.8 | | | |
| 10 | 105 | 12.3 | 17.9 | 59.6 | | | |
| 11 | 106 | 8.2 | 17.8 | 43.7 | | | |
| 12 | 50.6 | 12.3 | 11.8 | 50.0 | | | |
| 13 | 45.8 | 10.3 | 13.6 | 48.8 | | | |
| 14 | 57.6 | 10.6 | 97.0 | 225 | | | |
| 15 | 32.8 | 16.9 | 27.9 | 90.2 | | | |
| 16 | 35.6 | 15.3 | 24.4 | 48.4 | | | |
| 17 18 | 80.8 | 9.5 | 25.7 | 92.4 | | | |

APPENDIX A

LABORATORY RESULTS FROM STEELE BROOK/NAUGATUCK RIVER SEDIMENT SAMPLING

December 5, 1994



HRP Associates Inc. 167 New Britain Ave Plainville, CT 06062

Attn: Ms. Pat Terwilliger

Please find attached laboratory report(s) for the samples submitted on November 18, 1994

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing and or the test results, please have the following information readily available:

LAB No. : 114-376-15 PO/JOB No. : MAC0013.RC

INVOICE No.: 48141 ORDER No.: 28070 CUSTOMER No.: 350

Please feel free to contact us if you have any questions.

Very truly yours,

Stephen J. Franco Laboratory Director

PH-0547



STEPHEN J. FRANCO
Laboratory Director
PHONE ■ 203/634-3731

Date Samples Received: 11-18-94

Client Name: HRP Associates Inc. CTL Lab No. 114-376-15 Report Date: 12-5-94 PO/Job No. MACOO13.RC

RESULTS OF ANALYSIS

Mass Analysis EPA 3050A

| Matrix Type | S | S | S | S |
|----------------|------------------------------|------------------------------------|---------------------|----------------------------|
| CTL Sample No. | 14423 | 14424 | 1 442 5 | 14426 |
| Field ID | #1 | #2 | #3 | #4 |
| Copper-mg/kg | 1,290 22.6 69.0 195 | 45.4 ——10.0 ——16.0 ——76.0 | 9.3 12.7 90.1 | 117 8.7 16.2 64.7 |

Mass Analysis EPA 3050A

| Matrix Type | S | S | S | S | |
|----------------|-----------------------------|-----------------------------|------------------------------------|-----------------------------|--|
| CTL Sample No. | 1 44 27 | 14428 | 14429 | 14430 | |
| Field ID | #5 | #6 | #7 | #8 | |
| Copper-mg/kg | 128 21.8 36.5 74.5 | 141 15.3 15.8 92.1 | 81.7 — 18.7 — 12.2 — 62.1 | 58.9 7.3 11.4 50.0 | |

Matrix Types : W = Water/Aqueous
S = Soil/Solid

0 = 0il/Hydrocarbons

Date Samples Received: 11-18-94

Client Name: HRP Associates Inc.

Report Date: 12-5-94

CTL Lab No. 114-376-15 PO/Job No. MAC0013.RC

RESULTS OF ANALYSIS

Mass Analysis EPA 3050A

| Matrix Type | S | S | S | S |
|----------------|-------|-------|-------|-------|
| CTL Sample No. | 14431 | 14432 | 14433 | 14434 |
| Field ID | #9 | #10 | #11 | #12 |
| Copper-mg/kg | 168 | 105 | 106 | 50.6 |
| Nickel-mg/kg | 9.8 | 10.4 | 12.3 | 8.2 |
| Lead-mg/kg | 13.2 | 10.6 | 17.9 | 17.8 |
| Zinc-mg/kg | 55.6 | 46.8 | 59.6 | 43.7 |

Mass Analysis EPA 3050A

| Matrix Type | S | S | S | |
|----------------|-------|-------|-------|--|
| CTL Sample No. | 14435 | 14436 | 14437 | |
| Field ID | #13 | #14 | #15 | |
| Copper-mg/kg | 45.8 | 57.6 | 32.8 | |
| Nickel-mg/kg | 12.3 | 10.3 | 10.6 | |
| Lead-mg/kg | 11.8 | 13.6 | 97.0 | |
| Zinc-mg/kg | 50.0 | 48.8 | 225 | |

Matrix Types : W = Water/Aqueous

S = Soil/Solid

O = Oil/Hydrocarbons

HRP Associates, Inc. 167 New Britain Avenue Plainville, CT 06062 P ne: 203-793-6899

HRP

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HRP Associates, Inc. 167 New Britain Avenue Plainville, CT 06062 F ne: 203-793-6899 HRP

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HRP Associates, Inc. 167 New Britain Avenue Plainville, CT 06062

ne: 203-793-6899 Fax: 203-793-6871

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Sheet 3 of 3

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Project Manager RDM

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| CN-A CN-T 8010/601 8015 Cr-T 8020/602 CU 8020+MTBE 8080 8100 8100 8 100 8 100 8 100 8 100 8 100 8 100 8 100 | Ba | | | | | | Total | d Collion | 71 | | | | | | | | | | |
| B010/601 B010/601 Cor4 | Cd | | | | | | Fluo | oride | | | | | | | | | | | |
| Sold | CH-Y | | | | | | Chlo | ride . | | | | | | | | | | | |
| B020/602 | | | | | | | 8010 | 0/601 | | | | | | _ | | | | \top | |
| Co | Cr ⁴ | | | | | | 8015 | 5 | | | | | | | | | | 7 | |
| S080 S100 | Or-T | | | | | | 8020 | 0/602 | | | | | | | | | | | |
| Re | Su / | χ | X | × | X | X | 8020 | HTBE | | | | | | | | | | | |
| B TCLP Metals | Fe-D | | | | | | 8080 |) | | | | | | | | | 7 | | |
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| | ₹8 . | | | | | | BTC | LP Mela | d s | | | | | | | | | \top | |
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| Hernarka | Temeriu | | | | | | | | | | | | | | | | · | | |

HRP Associates, Inc. 167 New Britain Avenue Plainville, CT 06062

ne: 203-793-6899

HRP

CHAIN OF CUSTODY

Project Manager RDM

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December 7, 1994

HRP Associates Inc. 167 New Britain Ave Plainville, CT 06062

Attn: Ms. Pat Terwilliger



Please find attached laboratory report(s) for the samples submitted on November 23, 1994

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing and or the test results, please have the following information readily available:

LAB No. : 114-442-3 PO/JOB No. : MAC0013.RC

INVOICE No.: 48234 ORDER No.: 28163 CUSTOMER No.: 350

Please feel free to contact us if you have any questions.

Very truly yours,

Stephen J. Franco Laboratory Director

PH-0547



STEPHEN J. FRANCO Laboratory Director

PHONE ■ 203/634-3731

165 GRACEY AVENUE ■ MERIDEN, CT ■ 06451

WATER # SOIL # AIR

Date Samples Received: 11-23-94

Client Name: HRP Associates Inc. CTL Lab No. 114-442-3

PO/Job No. MAC0013.RC Report Date: 12-7-94

RESULTS OF ANALYSIS

Mass Analysis EPA 3050A

| Matrix Type | S | S | S | |
|---|------------------------------|------------------------------|----------------|--|
| CTL Sample No. | 14621 | 14622 | 1 4 623 | |
| Field ID | #16 | #17 | #18 | |
| Copper-mg/kg Nickel-mg/kg Lead-mg/kg Zinc-mg/kg | 35.6 16.9 27.9 90.2 | 80.8 15.3 24.4 48.4 | | |

Matrix Types : W = Water/Aqueous S = Soil/Solid

0 = Oil/Hydrocarbons

Date: March 16, 2001 Rev. No. 0

APPENDIX L 1987 INK SPILL REPORTS

e\rdm\mac\mac-0036-ca-aocs

HRP

Associates, Inc.

39 Riverside Avenue
Westport, Connecticut 06880
(203) 227-8497

IPC Corporation

December 14, 1987

Ms. Cherrie Gillis MacDermid, Inc. 245 Freight St. Waterbury, CT 06708

Re: Analysis of Soil and Ink Material

Dear Ms. Gillis:

Per your request, we have sampled the ink material which was recently discovered under a concrete pad at the Huntingdon Avenue facility. Results are summarized below:

 We understand that the material consists of epoxylike ink products manufactured at MacDermid. A Material Safety Data Sheet for a representative ink (MACuMask 9415) is attached. Composition of this product is:

Pigments (organic, non-metallic) = 0.4%
Catalyst (aromatic ketones) = 7.8%
Vehicle (acrylic monomers) = 75.5%
Additives (fillers such as MgO, CaSO, etc.) = 21.3%

Per MacDermid personnel, we understand that any waste ink is classified as a non-hazardous waste.

- Based on a phone conversation with John Prendiville, Sanitary Engineer with the Connecticut Department of Environmental Protection (DEP) Hazardous Waste Unit, DEP cleanup requirements for waste spills are as follows:
 - For hazardous wastes, cleanup should be in accordance with EPA's "Surface Impoundment Clean Closure Guidance Manual".
 - For non-hazardous wastes, cleanup should be in accordance with DEP's "Contaminated Soils Removal and Disposal Guidelines".

IPC Corporation

Ms. Cherrie Gillis December 14, 1987 Page Two

Since the ink material is reportedly classified as a non-hazardous waste, "Contaminated Soils Removal and Disposal Guidelines" was used as the basis for cleanup. A copy of this document is attached.

3. Sample collection was as follows (see Figure 1: Plan View-Area of Excavation).

Following removal of the concrete pad and partial excavation of the area, two composite samples were collected from the western face of the excavation. From grade elevation, this face consisted of approximately 18" of topsoil over a 6" layer of pastelike ink/soil mixture. Below the ink was a 4" layer of dark brown (discolored) soil. Soil which visually appeared to be uncontaminated began at approximately 28" below grade.

Samples consisted of:

#1471-1: Composite of visually clean soil collected at a depth of approximately 30" below grade.

#1471-2: Composite of the ink/soil layer.

Two types of containers were used for each sample:

- 40 ml glass vials with teflon septum for organics analysis.
 - 1 pt. glass container with plastic lid for metals : analysis.
- 4. In accordance with "Contaminated Soils Removal and Disposal Guidelines", the samples were analyzed for:
 - Organics EPA Methods 8010, 8015, 8020, plus ethylene glycol, acrylonitrile, 1,4 dioxane, isopropyl alcohol.
 - Metals & cyanide EP Toxicity (arsenic, barium, chromium cadmium, lead, mercury, selenium, silver, cyanide)

IPC Corporation

Ms. Cherrie Gillis December 14, 1987 Page Three

The data indicates that:

- The ink/soil layer (Sample #1471-2) contained a total hydrocarbon concentration of 97.16 ppm, consisting primarily of 1,1,1-trichloroethane, benzenes, toluene, and xylenes. The source of the hydrocarbons is unknown, as the ink products reportedly do not contain these constituents.
- The visually clean soil (sample #1471-1) collected at the depth of 30" below grade was free of contamination, indicating that hydrocarbon constituents had not migrated below the discolored area.
- 5. Based on the above results, the area of ink contamination was excavated to a depth of 30" to 36". A composite sample of the soil at the bottom of the excavation was collected and analyzed for the parameters listed above. This sample (#1371-3) was free of contamination, indicating that the contamination had been successfully excavated.
- 6. Since the ink/soil layer contained greater than 50 ppm total hydrocarbons, it must be handled as a hazardous waste according to "Contaminated Soils
- Removal and Disposal Guidelines". Approximately 550 ft³ of soil was excavated, and is being stored in 55 gallon drums pending disposal.

If you have any questions, please advise.

Very truly yours,

Brian G. Murray, P.E.

BGM:bn Attach.

A.

When investigating sites where soil contamination has occurred, the Department must determine whether or not contaminated soils should be excavated and disposed of.

Sail removal will depend primarily upon the specific contaminants present and the ground and surface water classifications at the site. The Department's purpose in equiring soil removal is to safeguard human health and the environment by removing and thereby eliminating potential sources of pollution. To achieve this objective the Department has developed the following guidance regarding soil removal and disposal.

I. Metals and Cyanides

The extent of heavy metal and cyanide contamination in soils is determined by the EP Toxicity test (40CFR, Part 261, Appendix II).

In areas having groundwater classification goals of G_{AA} or G_A all soils having metal or Cyanide concentrations that exceed established drinking water standards must be excavated and removed. Soils having concentrations up to thirty (30) times drinking water or human health standards are classified as "contaminated soil" and can be transported by a general contractor to a solid waste disposal facility approved by the Department of Environmental Protection. Soils with levels above 30 times the drinking water standard or human health standards are considered to be "hazardous waste" and must be manifested and transported by a licensed hazardous waste transporter for disposal in a permitted hazardous waste disposal facility.

In areas having groundwater classification goals of G_B, all soils tested and found to be hazardous, must be excavated and disposed of in the above described fashion. Soils tested and found to contain levels between 10 x's and 30 x's drinking water standards can be approved to a permitted solid waste disposal areas in the above described fashion. Soils tested and found to contain levels of metals between drinking waste standards and ten times (10 x's) these standards and/or found to be at or below background levels may on a case by case basis be left in place. In these situations a post-closure case, maintenance, and monitoring program may be required.

II. Hydrocarbon

The extent of hydrocarbon contamination in soil is determined by the appropriate analytical method detailed in Environmental Protection Agency Manual SW-846.

In areas having groundwater classification goals of G or GAA all soils having hydrocarbon above the published Suggested No Adverse Response Levels (SNARL's) shall be excavated and disposed of. Soils where it is found that the sum of all hydrocarbons exceed 50ppm will be considered hazardous waste and must be manifested and transported by a permitted hazardous waste transporter to a permitted hazardous waste disposal site. Appendix I lists the contaminant and the specific analytical test reference which must be done in all cases. In addition, on a site by site basis an anlysis for contaminants listed in MOCFR Part 261, Appendix VIII may also be requested and included in the sum.

Soils containing less than the 50ppm of total hydrocarbons but greater than the SNARLS shall be considered contaminated and can be excavated and disposed of by a general contractor at a DEP approved Solid Waste disposal facility.

In areas having a groundwater classification goal of G_B where historic contamination is in evidence or suspected and where adjacent surface water bodies are classed B or lower, representative background samples, agreed upon by representatives of Department of Environmental Protection, shall be obtained and used as the basis for the excavation standard. When background hydrocarbon concentrations are found which exceed SNARLS but are below the 50ppm level, these soils may, on a case by case basis, be left in place. In these situations a post-closure care, maintenance and monitoring program may be required.

III Notes:

- 1. This document is intended to provide general guidance for most soil contamination incidents. Since each site is evaluated on a case by case costs, Remedial Action not identified in this document may be required.
- 2. Excavations generally will not extend far below the water table due to soil instability; the depth of excavation below the water table will be determined on a case by case basis.
- 3. Excavations generally will not extend below proven barriers to contaminant movement such as clay, silt lenses, or termination of soil at the bedrock surface.
- 4. In fine grained silt and/or clay soils, the EP Toxicity procedure can result in high lead concentrations which may not accurately reflect the true hazard of these soils. These results will be reviewed on a case by case basis considering such factors as probable source, grain size analysis, and, or mass analysis data.
- Safety and practical restrictions regarding the depth of excavation will be considered.
- 6. Background quality.

In lieu of complete removal of soils for the above reasons or if it appears that substantial quantities of hazardous constituents have migrated to the groundwater, the State may require an on-going monitoring program. At such time that the contaminants involved or the degradation of products exceed acceptable levels in the monitoring network further remedial actions may be required.

7. Accutely toxic wastes or wastes that are not included in the Appendix will be evaluated on a case by case basis.

METHOD BOZO

AROMATIC VOLATILE ORGANICS

Benzene

Chlorobenzene

1,2-Dichlorobenzene

1.3-Dichlorobenzene

1,4-Dichlorobenzene

· / Ethyl benezene

Toluene

Xylenes (Dimethyl benzenes)

V = Method 602 Purgenth Annutius Method 624 Purgentles

METHOD 8015

NONHALOGENATED VOLATILE ORGANICS

Acrylamide

Carbon disulfide

Diethyl ether

Methyl ethyl ketone (MEK)

2-Chloroethyl vinyl ether

Chloromethyl methyl ether

Dibromochloromethane

Chloromethane

Chlorotoluene

Dipromomethane

Methyl isobutyl ketone (MIBK)

Paraldehyde (trimer of acetaldehyde)

HETHOD 8010

HALOGENATED VOLATILE ORGANICS

J. . Middle Lot Benzyl chloride · / 1,2-Dichlorobenzene Parojeste Halocarous Bis (2-chloroethoxy) methane · / 1,3-Dichlorobenzene Bis (2-chloroisopropy I) tether 1,4-Dichlorobenzene Bromobenzene Dichlorodifluoromethane Bromodichloromethane 1,1-Dichloroethane Bromoform 1,2-Dichloroethane Bromomethane 1,1-Dichloroethylene (Vinylidene Chloride) Carbon Tetrachloride · / trans-1,2-Dichloroethylene Chloracetaldehyde Dichloromethane (methyline interiols) Chloral 1,2-Dichloropropane Chlorobenzene 1,3-Dichloropropylene Chloroethane 1,1,2,2-Tetrachloroethane Chloroform 1,1,1,2-Tetrachloroethane 1-Chlorohexane Tetrachloroethylene

1,1,1-Trichloroethane

- /- I_1_2-Trichloroethane

Trichlorostnylene

* / Trichlorofluoromethane

Prichloropropane

/ Winyl chloride

STATE OF CONNECTICUT

DEPARTMENT OF HEALTH SERVICES

SNARLS

VOLATILE ORGANICS ACTION LEVELS

The Department of Health Services uses Public Health Code Regulation 19-13-B102 and the following list to determine the potability of drinking mater supplies. The concentrations given are action levels and are expressed in micrograms per liter.

| SOMPO UND | | | • — | CTION LEV | |
|---------------------------|-------|---|-----|-------------|-----|
| Arrylonitrile | | | | 35 | |
| Benzene | | | | <u> </u> | • , |
| 1,4 dioxane | | | • | 20 ° | |
| Ethylene glycol | | | | 100 | · |
| Isopropyl alcohol | | | • : | 1,000 | * |
| Methylene chloride | • | , | | 25 | |
| Methylethyl ketone | | | | 1,000 | |
| Polychlorinated biphenyls | (PCB) | | • • | 1 | |
| Tetrachloroethylene | | | | 20 | |
| Toluene - | | | - , | 1,000 | |
| 1.1.1 Trichloroethane | | | | 300 | |
| Trichloroethylene | | | | 25 | |
| 1,2 Dibromoethane (EDB) | | | | 0.1 | |
| 1.2 Dichloroethane (EDC) | | | | 1 | |
| 1,2 Dichloropropane | | | | 10 | |
| I,3 Dichloropropene | | | • | 10 | • |

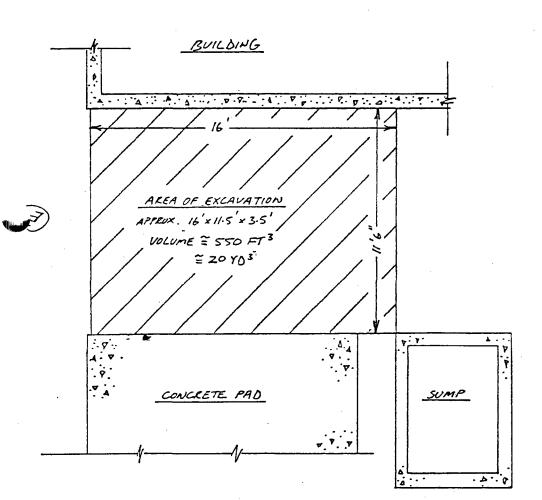
RJ/PR/ch 9/14/84



| | JOB NO |
|-------------------------------|---------------|
| NAME OF COMPANY MACDERMIS INC | SHEET NO OF/ |
| | DATE 12/11/87 |
| CUBIECT | ny 8671 |

FIGURE 1

PLAN VIEW - AREA OF EXCAVATION





BARON CONSULTING CO.

HARRY AGAHIGIAN, Ph.D., DIRECTOR

analytical services

P.O. BOX 663, ORANGE CT. 06477

December 9, 1987

Mr. Kevin Malone Industrial Pollution Control 39 Riverside Avenue Westport, Ct. 06880

SAMPLE I.D.

Re: Analysis of 3 Waste samples BC# 56947 - 56983

1

2

PO# 1471

3

1471-1: CLEAN SOIL COLLECTED 30" BELOW

GRADE

1471-2: INK/SOIL LAYER

1471-3: CLEAN SOIL COLLECTED FROM

BOTTOM OF EXCAUATION

LIMIT FOR NON-HAZARDOUS WASTE EP Tox. Pb ND<0.05 0.10 ND<0.05 < 5.0 ND<0.01 ND<0.01 ND<0.01 Cđ < 1.0 Cr ND<0.05 ND<0.05 ND<0.05 < 5.0 < 5.0 ND<0.01 ND<0.01 ND<0.01 As Se ND<0.01 ND<0.01 ND<0.01 < 1.0 ND<0.001 ND<0.001 ND<0.001 Нg c 0.2 ND<0.01 ND<0.01 ND<0.01 < 5.0 Aq 0.21 0.40 0.20 < 100.D. Ba CN ND<0.1 ND<0.1 ND<0.1

All values are expressed in mg/l.

Please review the data and contact us if you wish more information.

JGN/rsb

James G. Nuzzo Chemist James & Ruggo

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NOT RESPONSIBLE FOR SAMPLES LEFT OVER 30 DAYS AFTER RECEIPT OF REPORT

Connecticut Public Health Laboratory No. 0440

EPA Number CT015

BARON CONSULTING CO.

HARRY AGAHIGIAN, Ph.D., DIRECTOR

analytical services

P.O. BOX 663, ORANGE CT. 06477

December 9, 1987

To:

Mr Brian Murry

Industrial Pollution Control

39 Riverside Avenue Westport, CT 06880

Re:

Analysis of 3 samples

BC# 56947, 56983 Project #1471

The samples were analyzed as per EPA Methods 8010, 8020 and 8015. Results are listed on the following pages in ppb (ug/kg):

In addition, the samples were analyzed for the parameters listed below. Results are listed in ug/kg (ppb):

| | 1471-1 | 1471-2 | 1471-3 |
|-------------------|----------|----------|----------|
| • | | | |
| Ethylene glycol | ND<1,000 | ND<1,000 | ND<1,000 |
| Acrylonitrile | ND<1,000 | ND<1,000 | ND<1,000 |
| 1,4 Dioxane | ND<2,000 | ND<2,000 | ND(2,000 |
| Isopropyl alcohol | ND<1,000 | ND<1,000 | ND<1,000 |

Please call us if you have any questions.

David Ditta, Chemist

David Ditta, Chemist Senior Consultant

DD/dc encl

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NOT RESPONSIBLE FOR SAMPLES LEFT OVER 30 DAYS AFTER RECEIPT OF REPORT

Connecticut Public Health Laboratory No. 0440

EPA Number CT015

EPA METHOD 8010 HALOGENATED VOLATILE ORGANICS

| BL# | 1471 56983 | | | |
|------|------------------------------|---------|------------|---------|
| Resu | lts are in ppb | 1471-1 | 1471-2 | 1471-3 |
| | | | | |
| 1. | Benzyl chloride | ND<15 | ND(15 | ND<15 |
| 2. | Bis (2-chloroethoxy)methane | ND(15 | ND<15 | ND<15 |
| з. | Bis (2-chloroisopropyl)ether | ND<15 | ND(15 | ND<15 |
| 4. | Bromobenzene | ND<15 | ND<15 | ND(15 |
| 5. | Bromodichloromethane | ND<15 | ND<15 | ND<15 |
| 6. | Bromoform | ND<15 | ND<15 | ND<15 |
| 7. | Bromomethane | ND < 50 | ND<50 | ND < 50 |
| з. | Carbon tetrachloride | ND<15 | ND<15 | ND(15 |
| 9. | Chloracetaldehyde | ND(15 | ND<15 | ND(15 |
| 10. | Chloral | ND(15 | ND<15 | ND(15 |
| 11. | Chlorobenzene - | ND(15 | ND<15 | ND<15 |
| 12. | Chloroethane | ND<15 | ND<15 | ND<15 |
| 13. | Chloroform | ND<15 | ND<15 | ND(15 |
| 14. | 1-Chloropexane | ND(15 | ND<15 | ND(15 |
| 15. | 2-Chloroethyl vinyl ether | ND<15 | ND<15 | ND<15 |
| 16. | Chloromethane | ND < 50 | ND < 50 | NDX50 |
| 17. | Chloromethyl methyl ether | ND<15 | ND<15 | ND<15 |
| 18. | Chlorotoluene | ND(15 | ND<15 | ND<15 |
| 19. | Dibromochloromethane | ND<15 | ND<15 | ND<15 |
| 20. | Dibromomethane | ND<15 | ND<15 | NDK15 |
| 21. | 1,2-Dichlorobenzene | ND<15 | ND<15 | ND<15 |
| 22. | 1,3-Dichlorobenzene | ND<15 | ND<15 | ND<15 |

MON CONSULTING CO., 273 PEPES FARM RD., MILFORD, CT 203-874-5678

Page 2-Method 8010 Results are in ppb

| | | 1471-1 | 1471-2 | 1471-3 |
|-----|----------------------------|---------|---------|---------|
| | | | | |
| 23. | 1,4-Dichlorobenzene | ND<15 | ND <15 | ND(15 |
| 24. | Dichlorodifluoromethane | ND<15 | ND<15 | ND(15 |
| 25. | 1,1-Dichloroethane | ND<15 | ND<15 | ND(15 |
| 26. | 1,2-Dichloroethane | ND<15 | ND<15 | ND<15 |
| 27. | 1,1-Dichloroethylene | ND<15 | ND<15 | ND(15 |
| 28. | trans-1,2-Dichloroethylene | ND<15 | ND<15 | ND(15 |
| 29. | Dichloromethane | ND(15 | ND<15 | ND(15 |
| 30. | 1,2-Dichloropropane | ND<15 | ND<15 | ND<15 |
| 31. | 1,3-Dichloropropylene | ND<15 | ND<15 | ND<15 |
| 32. | 1,1,2,2-Tetrachloroethane | ND<15 | ND<15 | ND<15 |
| 32 | 1,1,1,2-Tetrachloroethane | ND<15 | ND<15 | ND(15 |
| 34. | Tetrachloroethylene | ND <15 | 70 | ND(15 |
| 35. | 1,1,1-Trichloroethane | ND<15 | 5,000 | ND<15 |
| 36. | 1,1,2-Trichloroethane | ND<15 | ND<15 | ND<15 |
| 37. | Trichlorgethylene | ND <15 | ND (15 | ND(15 |
| 38. | Trichlorofluoromethane | ND (15 | ND(15 | ND<15 |
| 39. | Trichloropropane | ND(15 | ND <15 | ND(15 |
| 40. | Vinyl chloride | ND < 50 | ND < 50 | ND < 50 |

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

PO# 1471 BC# 56983

7.

3.

Toluene

Xylenes (Dimethyl benzenes)

Results are in ppb 1471-1 1471-2 1471-3 14,760 1. Benzene ND(5 ND(5 2. ND(15 ND(15 ND(15 Chlorobenzene 1,2-Dichlorobenzene NDK15 NDK15 ND(15 З. ND(15 ND(15 ND(15 1,3-Dichlorobenzene ND(15 ND<15 ND(15 5. 1,4-Dichlorobenzene б. Ethyl benzene ND(5 2,910 ND(5

ND(5

ND(5

62,970

11,450

ND(5

ND(5

EPA METHOD 8015 NONHALOGENATED VOLATILE ORGANICS

PO# 1472 BC# 56983 Results are in ppb

| | | 1471-1 | 1471-2 | 1471-3 |
|----|---|--------|----------|----------|
| | | | | |
| 1. | Acrylamide | ND<200 | ND < 200 | ND < 200 |
| 2. | Carbon disulfide | ND<200 | ND<200 | ND<200 |
| з. | Diethyl ether | ND<200 | ND<200 | ND<200 |
| 4. | Methyl ethyl ketone(MEK) | ND<200 | ND(200 | ND(200 |
| 5. | Methyl isobutyl ketone(MIBK) | ND(200 | ND<200 | ND<200 |
| 5. | Paraldehyde (trimer of acetaldehyde) | ND<200 | ND(200 | ND<200 |

MEG:pcp 11/21/83 (R)

N.A. = Not applicable

U.S. DEPARTMENT OF LABOR

WAGE AND LABOR STANDARDS ADMINISTRATION
Bureau of Labor Standards

| | ` | |
|---|----------|----|
| | CODE # | ٦. |
| | 19415 | ľ |
| i | | |

MATERIAL SAFETY DATA SHEET

| SECT | ION I | | | | EMERGENCY TELEPHO | | |
|---|--------------|---------------|------------|---------------------------------------|--|---------------------------------------|-------------|
| MANUFACTURER'S NAME MacDermid, Inc. | | | | • | Metal Finis | | |
| ADDRESS (Number, Street, City, State, and Zip Code) 526 Huntingdon Ave., Waterbury, CT 06 | 720 | | | Ass'n. 24-hour Hotline (313) 644-5626 | | | .e |
| CHEMICAL NAME AND SYNONYMS | | | | TRADE NAME MACUM | and synonyms ask 9415 | | |
| CHEMICAL FAMILY ACTYLIC | | | FORMULA | 1 | | | |
| | | | <u> </u> | | · · · · · · · · · · · · · · · · · · · | | |
| SECT | TION II | - HAZAR | DOUS | INGREDIE | NTS | | |
| PAINTS, PRESERVATIVES, & SOLVENTS | % | TLV (Units) | ALLOYS A | ND METALLIC CO | ATINGS | % | TLV (Units) |
| PIGMENTS | 0.4 | | BASE MET | AL | | | |
| CATALYST | 7.8 | | ALLOYS | | | | |
| VEHICLE | 75.5 | | METALLIC | COATINGS | | | |
| SOLVENTS | | | FILLER ME | TAL PLUS COATIN | IG OR CORE FLUX | | <u> </u> |
| ADDITIVES | 21.3 | | OTHERS | | ······································ | | |
| OTHERS | | | | | | | |
| HAZARDOUS MIXT | URES OF OT | HER LIQUIDS. | SOLIDS, OR | GASES | | % | TLV (Units) |
| - No | ot appl | icable | | | | | |
| | , | | | | | | |
| | | | | | | | |
| | _ = - ++++ | | | | | | |
| | | | | | | | |
| | SECTIO | ON III - F | PHYSIC | AL DATA | ···· | · · · · · · · · · · · · · · · · · · · | |
| BOILING POINT (°F.) | | | SPECIFIC O | RAVITY (H2O=1) | | | 1.250 |
| VAPOR PRESSURE (mm Hg.) | | · · | PERCENT \ | OLATILE BY VOL | UME (%) | | 0.0 |
| VAPOR DENSITY (AIR=1) | | | EVAPORAT | ION RATE (| =1j | | N.A. |
| SOLUBILITY IN WATER | s | Very light | <u> </u> | | | | |
| APPEARANCE AND ODOR Green | | | | | | | |
| 0.5051041 | | | ->/ | | | | |
| SECTION I | V – FIR | EANDE | | AMMABLE LIMIT | | had a land | 11-1 |
| > 200°F. | | | | AMMABLE LIMIT | 3 | Lel | Uel |
| EXTINGUISHING MEDIA Dry chemi | cal . | | • | | | | |
| SPECIAL FIRE FIGHTING PROCEDURES | • | • | | | | | |
| • | | | | | | | |
| UNUSUAL FIRE AND EXPLOSION HAZARDS | | | | | | | |
| | | | | | | | |

SECTION V - HEALTH HAZARD DATA THRESHOLD LIMIT VALUE EFFECTS OF OVEREXPOSURE Severe eye irritation; mild irritant to skin. EMERGENCY AND FIRST AID PROCEDURES Eyes — remove ink with a cotton swab. Wash with water. Get medical aid.

Skin - wash with mild soap and water.
Inhalation - remove to fresh air. Call physician.
EMERGENCY NO. (313) 644-5626

| · | SECTION VI - REACTIVITY DATA | | | | | |
|----------------------------|------------------------------|-------------------------------------|--|--|--|--|
| UNSTABLE | | CONDITIONS TO AVOID | | | | |
| STABLE | x | Avoid prolonged storage above 70°F. | | | | |
| INCOMPATIBILITY (Mater Str | | id) xidizing agents. | | | | |
| HAZARDOUS DECOMPOS | SITION PR | DDUCTS | | | | |
| HAZARDOUS POLYMERIZ | ATION C | ONDITIONS TO AVOID | | | | |
| MAY OCCUR | AY OCCUR · | | | | | |
| WILL NOT OCCUR | X | | | | | |
| | | | | | | |

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Material should be removed with a spatula and area wiped with a rag saturated with Dowanol DPM (dipropylene glycol monomethyl ether).

WASTE DISPOSAL METHOD

Observe state and local ordinances pertaining to disposal. Should not be burned, but used as solid landfill.

| | SECTION VIII - SPEC | IAL PROTECTION | INFORMATION | |
|-------------------|---|----------------|-------------------------------------|--|
| RESPIRATORY PROTI | ECTION (Specify type) | | | |
| VENTILATION | LOCAL EXHAUST Preferable MECHANICAL (General) | | Not applicable OTHER Not applicable | |
| PROTECTIVE GLOVES | Yes | EYE PROTECTION | | |
| OTHER PROTECTIVE | Eye bath | | | |

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Storage should be conducted at 70° F. $(21^{\circ}$ C.) \pm 10° F. Use with adequate ventilation. Avoid prolonged or repeated contact with skin.

OTHER PRECAUTIONS



39 Riverside Avenue Westport, CT 06880 • (203) 227-8497

John Tollie

May 5, 1988

Mr. Jim Ray DEP Hazardous Waste Unit 165 Capitol Avenue Hartford. CT 06106

MacDermid, Inc., Waterbury

Dear Mr. Ray:

Attached please find analytical results for the two soil samples which were collected on 23 March 88 at the MacDermid, Inc., Huntingdon Avenue facility.

As you know, the samples were collected at the area which had been excavated for removal of ink residues. sample(#1471E) was taken from the eastern face of the excavation, and the second sample(#1471W)was taken from the western face. Per your request the samples were analyzed for EPA Method 8010(Halogenated Volatile Organics), Method 8015(Nonhalogenated Volatile Organics), and Method 8020 (Aromatic Volatile Organics).

The data indicates that:

- None of the above constituents were detected in Sample #1471W.
- 2. Sample #1471E contained 46ppb benzene and 42 ppb toluene. According to DEP's "Contaminated Soils Removal & Disposal Guidelines", since this area has a groundwater classification of GB and the total hydrocarbon concentration is less than 50,000 ppb, this soil can most likely be left in place.

We, therefore, request your approval to backfill and close the area without further excavation. I will call you in a few days to discuss this matter further. If you have any questions in the meantime, please advise.

Very truly yours,

Brian G. Murray / afth Brian G. Murray

CC: Cherrie Gillis, MacDermid

BARON CONSULTING CO.

HARRY AGAHIGIAN, Ph.D., DIRECTOR

analytical services

P.O. BOX 663, ORANGE CT. 06477

April 6, 1988

To:

Mr Brian Murry

Industrial Pollution Control

39 Riverside Avenue Westport, CT 06880 RECEIVED

APR 8 1988

Ans'd....

Re:

Analysis of 2 soils

Project #1471 BC# 58727

The samples were analyzed as per EPA methods 8010, 8015 and 8020.

Results are listed on the following pages in ppb:

Please call me if you have any questions.

David Ditta, Chemist

Senior Consultant

DD/dc encl

EPA METHOD 8010 HALOGENATED VOLATILE ORGANICS

ject #1471 BC# 58727

Results are in ppb

| Resu | lts are in ppb | 1471E | 1471W |
|-------|------------------------------|---------|---------|
| 1. | Benzyl chloride | ND <15 | ND(15 |
| 2. | Bis (2-chloroethoxy)methane | ND<15 | ND <15 |
| з. | Bis (2-chloroisopropyl)ether | ND<15 | ND<15 |
| 4. | Bromobenzene | ND<15 | ND <15 |
| 5. | Bromodichloromethane | ND <15 | ND(15 |
| 6. | Bromoform | ND <15 | ND <15 |
| 7. | Bromomethane | ND < 50 | ND<50 |
| s. | Carbon tetrachloride | ND<15 | ND<15 |
| 9. | Chloracetaldehyde | ND<15 | ND<15 |
| 1 ^ . | Chloral | ND<15 | ND<15 |
| 11. | Chlorobenzene | ND(15 | ND<15 |
| 12. | Chloroethane | ND<15 | ND <15 |
| 13. | Chloroform | ND<15 | ND<15 |
| 14. | 1-Chlorchaxane | ND<15 | ND(15 |
| 15. | 2-Chloroethyl vinyl ether | ND<15 | ND<15 |
| 16. | Chloromethane | ND < 50 | ND < 50 |
| 17. | Chloromethyl methyl ether | ND<15 | ND<15 |
| 18. | Chlorotoluene | ND<15 | ND<15 |
| 19. | Dibromochloromethane | ND<15 | ND <15 |
| 20. | Dibromomethane | ND<15 | ND (15 |
| 21. | 1,2-Dichlorobenzene | ND<15 | ND<15 |
| 22. | 1,3-Dichlorobenzene | ND(15 | ND<15 |

| Resu | olts are in ppb | 1471E | 1471W |
|------|----------------------------|--------|--------|
| | | | |
| 23. | 1,4-Dichlorobenzene | ND<15 | ND<15 |
| 24. | Dichlorodifluoromethane | ND<15 | ND <15 |
| 25. | 1,1-Dichloroethane | ND <15 | ND<15 |
| 26. | 1,2-Dichloroethane | ND<15 | ND<15 |
| 27. | 1,1-Dichloroethylene | ND<15 | ND<15 |
| 28. | trans-1,2-Dichloroethylene | ND(15 | ND(15 |
| 29. | Dichloromethane | ND<15 | ND<15 |
| 30. | 1,2-Dichloropropane | ND<15 | ND<15 |
| 31. | 1,3-Dichloropropylene | ND<15 | ND(15 |
| 32. | 1,1,2,2-Tetrachloroethane | ND<15 | ND<15 |
| 33. | 1,1,1,2-Tetrachloroethane | ND(15 | ND<15 |
| 3 | Tetrachloroethylene | ND <15 | ND<15 |
| 35. | 1,1,1-Trichloroethane | ND(15 | NDK15 |
| 36. | 1,1,2-Trichloroethane | ND<15 | ND(15 |
| 37. | Trichloroethylene | ND<15 | ND(15 |
| 38. | Trichlorofluoromethane | ND(15 | ND<15 |
| 39. | Trichloropropane | ND(15 | ND(15 |
| 40. | Vinyl chloride | ND (50 | ND(50 |

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Project #1471 BC# 58727 Results are in ppb

| | | 1471E | 1471W |
|----|-----------------------------|-------|--------|
| 1. | Benzene | 46 | ND<5 |
| 2. | Chlorobenzene | ND<15 | NDK15 |
| з. | 1,2-Dichlorobenzene | ND<15 | ND<15 |
| 4. | 1,3-Dichlorobenzene | ND<15 | ND<15 |
| 5. | 1,4-Dichlorobenzene | ND<15 | ND<15 |
| 6. | Ethyl benzene | ND(5 | ND(5 |
| 7. | Toluene | 42 | ND(5 |
| | Xylenes (Dimethyl benzenes) | ND<5 | ND < 5 |

EPA METHOD 8015 NONHALOGENATED VOLATILE ORGANICS

Project #1471 BC# 58727 Results are in ppb

| | | 1471E | 1471W |
|----|-------------------------------------|----------|----------|
| | | | |
| 1. | Acrylamide | ND<200 | ND(200 |
| 2. | Carbon disulfide | ND<200 | ND < 200 |
| з. | Diethyl ether | ND<200 | ND<200 |
| 4. | Methyl ethyl ketone(MEK) | ND < 200 | ND<200 |
| 5. | Methyl isobutyl ketone(MIBK) | ND<200 | ND<200 |
| 6. | Paraldehyde(trimer of acetaldehyde) | ND<200 | ND<200 |

Date: March 16, 2001 Rev. No. 0

APPENDIX M

RCRA CLOSURE SUMMARY FOR FORMER HAZARDOUS WASTE STORAGE AND RECYCLING AREAS (JANUARY 24, 2001)

e\rdm\mac\mac-0036-ca-aocs

HRP

Associates, Inc.

HRP Associates, Inc. ENVIRONMENTAL/CIVIL ENGINEERING & HYDROGEOLOGY







January 24, 2001

CERTIFIED MAIL

Mr. David A. Nash, Director Waste Engineering & Enforcement Division Connecticut Department of Environmental Protection 79 Elm Street Hartford, CT 06106-5127

RE: RCRA CLOSURE SUMMARY FOR FORMER HAZARDOUS WASTE STORAGE AND RECYCLING AREAS, MACDERMID, INC., 526 HUNTINGDON AVENUE, WATERBURY, CONNECTICUT (HRP #MAC-0030.RC)

Dear Mr. Nash:

On behalf of MacDermid, Inc., HRP Associates, Inc. (HRP) has prepared and enclosed, for your review, a copy of the document entitled "RCRA Closure Summary for Former Hazardous Waste Storage and Recycling Areas." Presented in this document is a summary of the closure activities that were recently performed in the following former 1994 permitted storage/recycling areas located at MacDermid, Inc.'s Huntingdon Avenue facility:

- Flammable Materials Storage Area;
- Spent NMP Recycling Area; and
- Spent Solder Stripper Recycling Area.

As discussed in Section 3.0 of this document, it is HRP's opinion that MacDermid's goal of clean closure has been achieved at the former Flammable Storage Area. To achieve the goal of clean closure in the former NMP and Solder Stripper Recycling Areas, the remedial closure activities summarized in Sections 3.1 and 3.2 are proposed, respectively. Since these remedial closure activities will impact MacDermid's manufacturing operations (high traffic manufacturing areas) and the detected contamination does not appear to pose any immediate threat to human health or the environment, MacDermid, Inc. respectfully requests CT DEP comments/approval prior to conducting any proposed remedial closure activity.

If you have any questions or require any additional information, please contact me at (860) 793-6899.

Sincerely yours,

HRP ASSOCIATES, INC.

Richard D. McFee, P.E.

Associate

RDM/cpk Attachment

cc: Greg Strong, MacDermid, Inc.

| side? | SENDER: | | I also wish to receive the follow- | |
|---------------------|---|--|--|----------------------|
| on the reverse sic | □ Complete items 1 and/or 2 for additional services. □ Complete items 3, 4a, and 4b. □ Print your name and address on the reverse of this form so that we can return this card to you. □ Attach this form to the front of the mailpiece, or on the back if space does not permit. □ Write "Return Receipt Requested" on the mailpiece below the article number. □ The Return Receipt will show to whom the article was delivered and the date delivered. | | ing services (for an extra fee): 1. | Receipt Service. |
| | 3. Article Addressed to: | 4a. Article Nu | | Rec |
| N ADDRESS completed | David Nash, Dir. WEED CT DEP 79 Elm St. Hartford, CT 06106-5127 | 4b. Service T Registered Express M Return Rece 7. Date of Del | ype Certified ail Insured sipt for Merchandise COD | you for using Return |
| ur <u>AE 10</u> | Received By: (Print Name) Signature (Addressee or Agent) | 8. Addressee' fee is paid) | s Address (Only if requested and | Thank |
| s your | | | | |
| # | PS Form 3811, December 1994 | 102595-99 | -B-0223 Domestic Return Receipt | |

RCRA CLOSURE SUMMARY FOR FORMER HAZARDOUS WASTE STORAGE AND RECYCLING AREAS

MacDERMID, INC. 526 HUNTINGDON AVENUE WATERBURY, CONNECTICUT

HRP #MAC0030.RC

January 24, 2001

Prepared by:

Richard D. McFee, P.E. Associate

Submitted to:

Mr. Greg Strong MacDermid, Inc. 245 Freight Street Waterbury, Connecticut 06702 Submitted by:

HRP Associates, Inc. Engineering & Geology 167 New Britain Avenue Plainville, Connecticut 06062

e\rdm\m\rcra closure summary

HRP

Associates. Inc.

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1.0 INTRODUCTION

The MacDermid, Inc. facility, located at 526 Huntingdon Avenue in Waterbury, Connecticut (see Figure 1) is currently classified as a generator, treater, storer, and recycler of hazardous and Connecticut-regulated wastes. In August 1994, the Huntingdon Avenue facility received a permit (No. HWM-151-028) from the Connecticut Department of Environmental Protection (CT-DEP) to operate the waste management units listed below.

| 1994 Permitted Hazardous Waste Management Units | | | | | |
|---|--------------------------------------|------------|------------------------|--|--|
| Waste Management Area | Container Type | Max. # of | Total Storage Area | | |
| | <u> </u> | Containers | Capacity | | |
| Main Container Storage Area | 55-gal, drums and/or | 1,400 | 77,000 gallons | | |
| | 330-gal. storage totes | 20 | Total combined area | | |
| • | | | capacity not to exceed | | |
| | | | 77,000 gallons | | |
| Quality Control (QC) Waste Staging | 55-gal. drums and | 80 | 6,380 gallons | | |
| Area | 330-gal. storage totes | 6 | , | | |
| Combustible Storage Area | 55-gal. drums and | 54 | 4,290 | | |
| | 330-gal. storage totes | 4 | | | |
| Flammable Material Storage Area | 55-gal. drums | 15 | 880 gallons | | |
| Metal Hydroxide/Sulfide Sludge Area | 26 yd ³ roll-off dumpster | 1 | 26 yd ³ | | |
| Bulk Tank Storage Area | N.A. | N.A. | 29,000 gallons | | |
| | | | (3-8,000 gal. tanks) | | |
| | | | (1-8,000 gal. tank) | | |
| Recycling Tanks associated with | N.A. | N.A. | 15,300 gallons | | |
| spent copper etchant, spent solder | | | | | |
| stripper, and spent N-methyl Pyroi- | | | | | |
| done (NMP) | | | | | |

The general locations of the 1994 hazardous waste management units are shown on Figure 2. All figures are provided at the end of the report.

In February 1999¹, MacDermid, Inc. submitted an updated Hazardous Waste Part B Permit Application to the CT-DEP for review and approval. As a result of changes in MacDermid, Inc.'s operations, the February 1999 permit application requested a final Resource Conservation and Recovery Act (RCRA) and Connecticut General Statutes (CGS) Section 22a-454 operating permit for only the spent copper etchant recycling operation. The specific on-site units which are associated with the copper etchant recycling operation and still operated by MacDermid, Inc. are as follows:

HRP

¹ 180 days prior to Permit No. HWM-151-028 expiration date.

- Main Container Storage Area;
- Quality Control (QC) Waste Staging Area;
- Bulk Tank Storage Area; and
- Spent Copper Etchant Recycling Area.

Presented under this document is a summary of the RCRA closure activities completed to date at the following former 1994 permitted storage/recycling areas:

- Flammable Material Storage Area;
- Spent NMP Recycling Area; and
- Spent Solder Stripper Recycling Area.

The Combustible Storage Area was closed by MacDermid, Inc. The results of the closure activities for this former hazardous waste storage area will be included in a separate report.

The metal hydroxide/sulfide storage area is still in use. Based on MacDermid, Inc.'s review of the process wastewaters received in the on-site wastewater treatment system, the generated sludge does not meet the definition of an F006 sludge. Therefore, since the generated sludge is not a characteristic hazardous waste (see Appendix A), the generated sludge should have always been managed as a Connecticut Regulated Waste and should not be subjected to RCRA closure.

2.0 RCRA CLOSURE ACTIVITIES

In order to ensure the former hazardous waste storage and recycling areas (i.e. Flammable Storage Area, Spent NMP Recycling Area, and Spent Solder Stripper Recycling Area) located at MacDermid, Inc.'s Huntingdon Avenue facility were closed in a manner that is protective of human health and the environment, HRP Associates, Inc. (HRP) was contracted to perform closure activities in accordance with the CT-DEP approved 1994 Closure Plan. Presented in Subsections 2.1 through 2.5 of this report are descriptions of the following closure activities:

- Identification of Constituents of Concern (COCs);
- · Development of Closure Standards;
- Inspection for Floor Cracks and Gaps;
- · Sampling and Analysis of Subsurface for COCs; and
- Sampling and Analysis of Floor Surface for COCs.

As indicated in Section 3.0, it is HRP's opinion that MacDermid's goal of clean closure has been achieved in the former Flammable Storage Area. As for the former NMP Recycling Area, it is HRP's opinion that MacDermid's goal of clean closure will be achieved following the removal and disposal of approximately 5 yd³ of contaminated concrete. As for the former Solder Stripper Recycling Area, it is HRP's opinion that MacDermid's goal of clean closure will be achieved following completion of the following closure activities:

- Removal and disposal of approximately 1.5 yd³ of contaminated concrete;
- Removal and disposal of approximately 1.5 yd³ of contaminated soil; and
- Collection and analysis of confirmatory soil samples along the western boundary of the excavated soil area (on-site equipment limited sampling access).

The proposed removal areas are located in high traffic (forklifts, personnel, etc.) manufacturing areas. Therefore, since these removal activities will impact manufacturing operations and the detected contamination does not appear to pose any immediate threat to human health or the environment, MacDermid, Inc. requests CT-DEP comments prior to conducting any removal activity.

2.1 Identification of Constituents of Concern

Presented in Table 13.1 of the CT-DEP approved 1994 Closure Plan is a list of the hazardous constituents identified for each storage and recycling area at the Huntingdon Avenue facility. Included in Table 13.1 is also a listing of the known 1994 health and environmental based closure performance standards (i.e., clean closure standards) for each identified hazardous constituent. A copy of Table 13.1 is provided in Appendix B.

In order to identify any additional hazardous constituent managed within each storage/recycling area, Sections 13.4.1.3 (Step 2) and 13.4.2.3 (Step 2) of the 1994 Closure Plan required the collection and analysis of a concrete floor sample for all the hazardous constituents listed under Appendix IX of 40 CFR Part 264. Listed below is the sampling procedure followed in December 1999 to collect representative concrete samples from the Flammable Storage Area, the former NMP Recycling Area and the former Solder Stripper Recycling Area for this analysis.

- Step 1: Divided the base of each storage/recycling area into 20 equal grids.
- Step 2: Used a random number generator to select three (3) sampling grids. Selected a fourth sampling grid using professional judgment (e.g. stained area).
- Step 3: Because the concrete base was coated with an epoxy paint, an electric rotohammer was used to remove the epoxy paint at each selected sampling grid.
- Step 4: The electric rotohammer was used to break up the top ¼" (approximate) of concrete from each selected sampling grid.
- Step 5: Decontaminated the electric rotohammer between each selected sampling grid using the procedure listed in Section 13.4.3.2 (Step 3) of the 1994 Closure Plan.
- Step 6: Placed the concrete chip samples from each selected sampling location into two 8 oz. jars; one jar was filled to the top and sealed and the other was half-filled for headspace analysis.
- Step 7: To determine which sample for each storage/recycling area would be submitted for analysis of the volatile constituents listed under 40 CFR Part 264, Appendix IX, a Photoionization Detector (PID)

was utilized. The headspaces of the four (4) half-full jars collected from each storage/recycling area were analyzed with the PID. The matching full jar for the sample (i.e. half-full jar) exhibiting the highest headspace contamination was submitted to the laboratory for analysis of the Volatile Constituents listed under 40 CFR 264, Appendix IX.

Step 8:

The contents of the four (4) half-full jars collected from each storage/recycling area were thoroughly mixed and placed into another 8 oz. jar (full jar) for analysis of non-volatile constituents listed under 40 CFR Part 264, Appendix IX.

Step 9:

The samples were submitted to a certified laboratory for analysis. All samples were accompanied with a chain-of-custody.

Based on the December 1999 Appendix IX sampling results (see Appendix C), the following additional hazardous constituents or "constituents of concern" were identified for each storage/recycling area undergoing closure:

| Former Flammable | Former NMP | Former Solder Stripper |
|--|---|--|
| Storage Area | Recycling Area | Recycling Area |
| Sulfide Acetone 1,4-Dioxane 4-methyl-2-pentanone (MIBK) Bis(2-ethylhexyl)phthalate Di-n-butylphthalate | Arsenic Sulfide Acetone Benzyl Alcohol Bis(2-ethylhexyl)phthalate | Sulfide Acetone 1,4-Dioxane MIBK Bis(2-ethylhexyl)phthalate Butyl Benzyl phthalate Di-n-butylphthalate Di-n-octylphthalate |

2.2 Development of Closure Standards

Listed in Table 13.1 of the 1994 Closure Plan (see Appendix B) are closure standards for approximately 80% of the listed constituents of concern (COCs). For the 1994 COCs without closure standards and the additional COCs detected in the Appendix IX analysis (see Section 2.1), the closure standards were obtained from Section 22a-133k of the Regulations of Connecticut State Agencies (RCS) or calculated using the equation listed in Section 22a-133k of the RCS. Calculated closure standards are provided in Appendix D.

Summarized in Tables 1, 2, and 3 are the closure standards for a storage or recycling area undergoing closure. All tables are provided at the end of the report.

2.3 Inspections for Floor Cracks and Gaps

On December 2, 1999, HRP personnel inspected the concrete floor of each storage/recycling area undergoing closure for cracks, gaps or similar features. The purpose of this inspection was to determine if any potential pathways existed for the migration of hazardous constituents to the subsurface. The results of these inspections are summarized below:

- No cracks, gaps or similar features were identified in the former Flammable Storage Area;
- Two (2) suspect areas were identified in the Former NMP Recycling Area; and
- Two (2) suspect areas were identified in the former Solder Stripper Recycling Area.

The locations of the identified suspect areas are shown on Figure 3.

2.4 Subsurface Investigations

On January 13, 2000, HRP performed subsurface investigations in each suspect area identified in the former NMP and Solder Stripper Recycling Areas (see Section 2.3). In accordance with Sections 13.4.1.3 (Steps 8-10), 13.4.2.3 (Steps 10 and 11) and 13.4.3.4 of the 1994 Closure Plan, HRP used a concrete core drill to reach the next sub-grade level. To prevent cross-contamination between sampling points, the concrete core drill was decontaminated as outlined under step 4 of Section 13.4.3.4. Summarized below are the results of this investigation.

| Area | Sampling Location | Results |
|------------------------------|----------------------|---|
| Former NMP Recycling Area | 013 | A second concrete slab was encountered beneath the concrete floor. A concrete sample was collected from the second slab and submitted for analysis of all parameters listed under Table 3 by mass analysis. All metals listed under Table 3 were also analyzed by the EP Toxicity procedure (i.e., leachate). |
| Former NMP Recycling Area | 014 | A second concrete slab was encountered beneath the concrete floor. A concrete sample was collected from the second slab and submitted for analysis of all parameters listed under Table 3 by mass analysis. All metals listed under Table 3 were also analyzed by the EP Toxicity procedure (i.e., leachate). |

| Area | Sampling Location | Results |
|--|----------------------|--|
| Former Solder Stripper Recycling Area | 004 | A soil sample was collected directly beneath the concrete floor. The soil sample was submitted for analysis of all parameters listed under Table 2 by mass analysis. All metals listed under Table 2 were also analyzed by the EP Toxicity procedure. |
| Former Solder Stripper Recycling Area | 012 | A second concrete slab was encountered beneath the concrete floor. A concrete sample was collected from the second slab and submitted for analysis of all parameters listed under Table 2 by mass analysis. All metals listed under Table 2 were also analyzed by the EP Toxicity procedure. |

The sampling locations are shown on Figure 3.

Summarized in Table 4 are the closure standard exceedances detected in the January 13, 2000 subsurface samples. To determine if a non-metal constituent exceeded its leachate standard, its mass concentration was divided by 20 to generate an assumed leachate concentration. This very conservative approach assumes that all of the detected non-metal contamination will leach out of the concrete or soil sample. The results of these calculated concentration are listed in Table 4 under the column "Computed Leachate". A copy of the laboratory report is provided in Appendix E.

As indicated in Table 4, both recycling areas exhibited metal concentrations (e.g., cadmium chromium, copper, and lead) above their respective closure standards. Sample 004, which was collected in the former Solder Stripper Recycling Area, also exhibited a calculated trichloroethylene leachate concentration above its closure standards.

In accordance with Section 13.4.6 of the 1994 Closure Plan, equipment and trip blank samples were prepared and submitted with the January 13, 2000 concrete and soil samples for analysis. The equipment blank sample consisted of deionized water that was transported to the site, opened in the field, poured over the concrete core drill and collected in a sample container. The trip blank consisted of deionized water that was transported to the site and stored with the collected concrete and soil samples (i.e., not opened in the field). The equipment and trip blank samples were collected and analyzed to monitor field sampling quality control (QC) activities and to ensure the accuracy and validity of the analytical results.

As shown in Table 4 and Appendix E, the equipment and trip blank samples exhibited only low concentrations of zinc and acetone. Based on these results, it appears proper QC procedures were followed in the field and the results presented in Table 4 and Appendix E are accurate.

Presented in Sections 2.4.1 and 2.4.2 are the additional subsurface investigations performed in the former NMP and Solder Stripper Recycling Areas, respectively.

2.4.1 Former NMP Recycling Area – Additional Subsurface Investigations

In efforts to determine if the contamination detected in concrete samples 013 and 014 was limited to the surface of the second concrete slab or extended through the second concrete slab, HRP instructed the laboratory on February 9, 2000 to analyze the bottom portion of the concrete core collected and submitted to the laboratory on January 13, 2000. The concrete samples 013b and 014b were analyzed for the parameters detected above the closure standards in samples 013 and 014 (see Table 4), respectively.

As indicated in Table 5, both concrete samples exceeded the chromium leachate closure standard of 0.05 mg/l. A copy of the laboratory report, which includes equipment and trip blanks analyses, is provided in Appendix F.

To determine if the soil beneath concrete samples 013b and 014b had been impacted, HRP instructed the laboratory on April 27, 2000 to analyzed the soil samples submitted on January 13, 2000 for future analysis. Soil samples 001 and 002 were analyzed for total chromium by the EP Toxicity procedure.

As indicated in Table 5, the soil beneath the second concrete slab in the former NMP Recycling Area had <u>not</u> been impacted. Therefore, no further subsurface investigations were performed in this recycling area. However, to determine the horizontal extent of concrete contamination, surface concrete chip sampling was performed (see Section 2.5.2). A copy of the laboratory report, which includes equipment and trip blank analyses, is provided in Appendix G.

2.4.2 Former Solder Stripper Recycling Area - Additional Investigations

In an effort to determine the extent of soil/concrete contamination in the area of samples 004 and 012, the samples listed below were collected by HRP on February 9, 2000. Each sample collected in the area of sample 004 (i.e., B001-B007), was analyzed for all the 004 parameters listed in Table 4 (i.e. the parameters detected above closure standards). The samples collected in the area of sample 012 (i.e., B010-B012 and 003) were analyzed for all of the 012 parameters listed in Table 4.

| Sample Number | Type of Sample | Location | | | |
|---|--|---------------------------|--|--|--|
| B001 | Soil (directly beneath concrete slab) | 2' NE of 004 | | | |
| B002 | Soil | 1' below soil sample B001 | | | |
| B003 | Soil (directly beneath concrete slab) | 2' SW of 004 | | | |
| B004 | Soil | 1' below soil sample B003 | | | |
| B005 | Soil (directly beneath concrete slab) | 2' NW of 004 | | | |
| B006 | Soil | 1' below soil sample B005 | | | |
| B007 | Soil | 1' below soil sample 004 | | | |
| B010 | Concrete (2 nd concrete slab) | 2' SE of 012 | | | |
| B011 | Concrete (2 nd concrete slab) | 2' NW of 012 | | | |
| B012 | Concrete (2 nd concrete slab) | 2' E of 012 | | | |
| 003 | Soil (directly beneath concrete slab)* | Below concrete sample 012 | | | |
| *Coil comple was callected and submitted to the laboratory on 1/12/00. I aboratory was in | | | | | |

*Soil sample was collected and submitted to the laboratory on 1/13/00. Laboratory was instructed to analyze this sample on 2/9/00.

To reach the subsurface soil and second concrete slab, a concrete core drill was used. As discussed previously, the concrete core drill was decontaminated after each sample. The sampling locations are shown on Figure 3.

Summarized in Table 6 are the sampling results (including equipment and trip blank samples) for the February 9, 2000 sampling event. A copy of the laboratory report is provided in Appendix F.

As indicated in Table 6, closure exceedances were detected in soil samples B001, B003, B005, B007, and 003 and concrete samples B010, B011, and B012. In an effort to determine the extent of soil/concrete contamination in these areas, a second set of soil/concrete samples was collected in the areas listed below during the time period of April 26-28, 2000.

| Sample Number | Type of Sample | Location |
|------------------|--|--------------------------------|
| B007A | Soil | 2' below soil sample 004 |
| B013A | Soil (directly beneath concrete slab) | 4' NE of soil sample 004 |
| B013B | Soil | 1' below soil sample B013A |
| B014A | Soil (directly beneath concrete slab) | 4' NW of soil sample B001 |
| B014B | Soil | 1' below soil sample B014A |
| B015A | Soil (directly beneath concrete slab) | 4' NW of soil sample 004 |
| B015B | Soil | 1' below soil sample B015A |
| B016A | Soil (directly beneath concrete slab) | 4' NW of soil sample B003 |
| B016B | Soil | 1' below soil sample B016A |
| B017A | Soil (directly beneath concrete slab) | 1.5' S of soil sample B016A |
| B017B | Soil | 1' below soil sample B017A |
| B018A | Soil (directly beneath concrete slab) | 3' SE of soil sample 004 |
| B018B | Soil | 1' below soil sample B018A |
| B019A | Soil (directly beneath concrete slab) | 1' below soil sample 003 |
| B020A | Concrete (2 nd concrete slab) | 3.5' SE of concrete sample 012 |
| B021A | Concrete (2 nd concrete slab) | 4' NE of concrete sample B020A |
| B022A | Concrete (2 nd concrete slab) | 4' NE of concrete sample 012 |
| B023A | Soil (directly beneath concrete slab) | 4' NW of concrete sample B022A |
| B024A | Concrete (2 nd concrete slab) | 4' NW of concrete sample 012 |

Summarized in Tables 7 and 8 are the sampling results for the April 26-28, 2000 sampling events (including equipment and trip blank samples). Soil samples B007 and B013 through B018 were analyzed for the parameters detected above their closure standards in sample 004 (see Table 4). Concrete/soil samples B019 through B024 were analyzed for the parameters detected above their closure standards in sample 012 (see Table 4). A copy of the laboratory report is provided in Appendix G. The sampling locations are shown on Figure 3.

As indicated in Table 7, the only soil samples that exceeded the closure standards in the area of sample 004 were B016B and B017B. Soil sample B016B exhibited a cadmium leachate concentration slightly above the closure standard of 0.01 mg/l. Soil samples B017B slightly exceeded the cadmium direct exposure and leachate closure standards.

Review of Table 8 shows that all samples collected in the area of sample 012 exceeded one (1) or more closure standard. To determine if the soil beneath concrete samples B020A, B021A, B022A, and B024B had been impacted, HRP instructed the laboratory to analyze the soil samples listed below on June 13, 2000. These soil samples were col-

lected and submitted to the laboratory for future analysis on April 27, 2000. Sampling locations are shown on Figure 3.

| Sample Number | Type of Sample | Location |
|------------------|----------------|--|
| B020B | Soil | Directly beneath concrete sample B020A |
| B021B | Soil | Directly beneath concrete sample B021A |
| B022B | Soil | Directly beneath concrete sample B022A |
| B024B | Soil | Directly beneath concrete sample B024A |

Summarized in Table 9 are the June 13, 2000 sampling results. As indicated in Table 8, the only closure exceedance was detected in soil sample B020B. Soil sample B020B slightly exceeded the cadmium leachate closure standard of 0.01 mg/l. A copy of the laboratory report is provided in Appendix H.

For the reason stated below, it is HRP's opinion that the degree and extent of soil and second concrete slab contamination have been defined in the former Solder Stripper Recycling Area. The proposed soil and concrete removal areas are described in Section 3.2.

Based on MacDermid, Inc.'s review of the former solder stripper recycling operation, no cadmium or cadmium compounds were ever used in this recycling operation. Provided in Appendix I is a copy of the solder stripper's fingerprint specification dated September 6, 1989, which indicates no cadmium concentration. The cadmium exceedances are believed to be associated with the former ball bearing manufacturing operation, which was conducted at this facility, before MacDermid's occupancy. Therefore, for the purpose of determining the degree and extent of concrete and soil contamination within this former recycling area, the cadmium exceedances have not been considered.

2.5 Surface Concrete Floor

To determine if the concrete floor (base) of the storage/recycling areas undergoing closure were impacted from former hazardous waste management activities, concrete chip samples were collected for analysis. In accordance with Sections 13.4.1.3 (Step 6), 13.4.2.3 (Step 12) and 13.4.3.3 of the 1994 Closure Plan, the sampling procedure listed below was followed:

- Step 1: Divided the base of each storage/recycling area into 15 to 20 equal grids.
- Step 2: Used a random number generator to select four (4) sampling grids. Selected a fifth sampling grid using judgment (e.g., stained area).
- Step 3: If the concrete base was coated with an epoxy paint, an electric rotohammer was used to remove the epoxy paint at each selected sampling grid.
- Step 4: If the concrete base was <u>not</u> coated with an epoxy paint, the sampling grid was power-washed using clean water only. Due to high traffic (e.g., forklifts, personnel, etc.) received within the areas undergoing closure, power-washing of the entire floor was not performed.
- Step 5: Used the electric rotohammer to break up the top 1/4" (approximate) of concrete from each selected sampling grid.
- Step 6: Stored the concrete samples collected from each selected sampling gird in separate glass jars.
- Step 7: Decontaminated the electric rotohammer between sampling grids using the procedure listed in Section 13.4.3.3 (Step 4) of the 1994 Closure Plan.
- Step 8: Submitted the samples to a certified laboratory for analysis. All samples were accompanied with a chain-of-custody.

The results of the concrete chip sampling activities for each storage/recycling area undergoing closure are presented in Sections 2.5.1 through 2.5.3.

2.5.1 Former Flammable Storage Area

On January 13, 2000, HRP collected five (5) concrete chip samples from the former Flammable Storage Area. The locations of the selected sampling grids are shown on Figure 3.

As illustrated in Table 10, the concrete sample collected from grid 005 exhibited calculated tetrachloroethylene and trichloroethylene leachate concentrations above their closure standards. Sample 007 exhibited a chromium leachate concentration above the closure standard of 0.05 mg/l. Samples 006, 008, and 009 exhibited concentrations at or below all closure standards listed in Table 1. A copy of the laboratory report is provided in Appendix E.

To determine if the goal of clean closure could be achieved at this former storage area, the area surrounding samples 005 and 007 were power-washed and re-sampled on February 9, 2000. Sample CC008, which was collected adjacent to sample 005, was analyzed for tetrachloroethylene and trichloroethylene by the Toxicity Characteristic Leaching Procedure (TCLP). Sample CC009, which was collected adjacent to sample 007, was analyzed for chromium by the EP Toxicity procedure.

As indicated in Table 10, only sample CC008 exhibited a concentration above a closure standard (TCLP tetrachloroethylene). A copy of the laboratory report is provided in Appendix F.

The area adjacent to sample 005 was power-washed a second time on April 26, 2000. Sample CC010, which was collected adjacent to samples 005 and CC008, was analyzed for tetrachloroethylene by TCLP (see Figure 3). As indicated in Table 10, the goal of clean closure was achieved for this former storage area. A copy of the laboratory report for sample CC010 is provided in Appendix G.

2.5.2 Former NMP Recycling Area

To determine the degree and extent of surface concrete contamination at the former NMP Recycling Area, HRP collected a total of thirteen (13) concrete chip samples on August 10, 2000 using the procedure described in Section 2.5. Each sample was analyzed for the parameters listed in Table 3 by mass analysis. All metals listed in Table 3 were also analyzed by the EP Toxicity procedure. Selected sampling locations, which are shown on Figure 4, were determined as follows:

| Sample Number , | Sampling Locations Determination |
|-----------------|--|
| CC011-CC-014 | Selected using a random number generator (Section 13.4.3.3 of 1994 Closure Plan). |
| CC015 | Selected judgmental – stained/corroded areas (Section 13.4.3.3 of 1994 Closure Plan). |
| CC021-CC024 | Approximately 2' north, south, east, and west of sample 014. Designed to determine the horizontal extent of concrete contamination in this area (see Section 2.4.1). |
| CC025-CC028 | Approximately 2' north, south, east, and west of sample 013. Designed to determine the horizontal extent of concrete contamination in this area (see Section 2.4.1). |
| W001 | Trip Blank |
| W002 | Equipment Blank |

Summarized in Table 11 are the closure exceedances detected in the August 10, 2000 concrete chip samples. A copy of the laboratory report is provided in Appendix J.

As indicated in Table 11, nine of the thirteen concrete chip samples exceeded one or more closure standards. The primary contaminant was leachate chromium.

In an effort to determine the horizontal degree of concrete contamination in this former recycling area, a second set of concrete chip samples was collected in the areas listed below on October 3, 2000. Sampling locations are shown on Figure 4.

| Sample Number | Location |
|---------------|--|
| CC029 | Approximately 5' north of sample 013 |
| CC030 | Approximately 5' east of sample 013 |
| CC031 | Approximately 5 south of sample 013 |
| CC032 | Approximately 5' west of sample 014 |
| CC033 | Approximately 5' north of sample 014 |
| CC034 | Approximately 8' north of sample CC011 |
| CC035 | Approximately 8' east of sample 014 |
| CC036 | Approximately 3' south of sample CC011 |
| CC037 | Approximately 5' south of sample 014 |
| W001 | Trip Blank |
| W002 | Equipment Blank |

Summarized in Table 11 are the closure exceedances detected in the October 3, 2000 concrete chip samples. Each October 3, 2000 concrete sample was analyzed for parameters listed below. These parameters were detected in one or more August 10, 2000 concrete samples above their closure standard. A copy of the laboratory report is provided in Appendix K.

- Chromium (leachate)
- Nickel (leachate)
- Zinc (leachate)
- Bis(2-ethylhexyl)phthalate (mass)

Based on results presented in Table 11 and Appendices J and K, it is HRP's opinion that the horizontal extent of concrete contamination in the former NMP Recycling Area has been defined. The proposed concrete removal area is presented in Section 3.1.

2.5.3 Former Solder Stripper Recycling Area

To determine the degree and extent of surface concrete contamination at the former Solder Stripper Recycling Area, HRP collected a total of five (5) concrete chip samples on August 10, 2000 using the procedure described in Section 2.5. Four of the sampling sites were selected using a random number generator. The fifth sampling site (CC020) was selected judgmentally (stained, corroded area). Each sample was analyzed for the parameters listed in Table 2 by mass analysis. All metals listed in Table 2 were also analyzed by the EP Toxicity procedure. Sampling locations are shown on Figure 5.

Summarized in Table 12 are the results of the August 10, 2000 sampling event. As indicated in Table 12, no closure standard exceedances were detected. A copy of the laboratory report is provided in Appendix J.

It is HRP's opinion that the concrete floor surface of the former Solder Stripper Recycling Area has not been impacted by former hazard-ous waste management activities. To achieve the goal of clean closure, the removal activities presented in Section 3.2 are recommended.

3.0 PROPOSED REMEDIAL CLOSURE ACTIVITIES

Based on the results presented in Section 2.0, the goal of clean closure has been achieved at the former Flammable Storage Area. To achieve the goal of clean closure in the former NMP and Solder Striper Recycling Areas, the remedial closure activities listed in Section 3.1 and 3.2 are proposed, respectively.

3.1 Former NMP Recycling Area

Recommendations for Soil:

Since both subsurface soil samples (001, 002) exhibited leachate chromium concentrations below the clean closure standard, it is HRP's opinion that no further subsurface investigations are required in this area (i.e., subsurface soil has not been impacted). The locations of the subsurface samples are shown in red on Figure 6.

Recommendations for Concrete:

As illustrated on Figure 6, there have been exceedances of chromium (leachate), zinc (leachate), nickel (leachate), and bis(2-ethylhexyl) phthalate (mass) in two (2) areas located in the southern portion of the former NMP Recycling Area.

In order to achieve the goal of clean closure, HRP recommends removing the following amount of concrete:

- Between sampling points CC029 and CC031 and approximately four (4) feet east of sampling point CC030; and
- Between sampling CC015, the eastern wall and the southern wall and approximately 3 feet west of sampling point CC032.

The proposed areas of concrete removal are outlined on Figure 7. The area of concrete removal is estimated to be 375 ft² (approximately 5 yd³).

3.2 Former Solder Stripper Recycling Area

Recommendations for Soil:

As illustrated on Figure 8, there have been exceedances of various closure parameters (excluding cadmium) at 004, B001, B003, B005, and B007. The soil samples collected at B001, B003, and B005 indicate that the depth of soil contamination is limited to one (1) foot below the concrete floor. In the area of soil samples 004 and B007, which were collected at the same location but at different depths, the depth of soil contamination extends to a depth of two (2) feet. These soil samples exhibited concentrations of the following contaminants

above their clean closure standards: chromium (leachate), tin (leachate), trichloroethylene (leachate), copper (leachate and solid), and lead (solid).

In order to achieve the goal of clean closure, HRP recommends removing the following amount of soil:

- Between sampling points B001, B003, and B005, remove soil to a depth of 2 feet (approximately 0.75 yd³); and
- Approximately 2' beyond sampling points B003 and B005 and 0.75' feet beyond sampling point B001, remove soil to a depth of 1 foot (approximately 0.7 yd³).

The proposed areas of soil removal are outlined on Figure 9.

The extent of contaminated soil along the western boundary (see Figure 9) has not been confirmed, due to the storage of on-site equipment (sampling access was limited). Therefore, confirmatory soil samples will need to be collected along the western edge of the excavation and analyzed to verify that all contaminated soil (i.e. above clean closure standards) has been removed.

Recommendations for Concrete:

As indicated on Figure 10, there have been exceedances of nickel (solid) in concrete chip samples B011, B012, B021A, and 012 (excluding cadmium). All nickel exceedances were detected in the second slab of concrete, which is located directly beneath the top or primary slab of concrete. The top and second slabs are approximately four (4) and two (2) inches thick, respectively.

In order to achieve the goal of clean closure, HRP recommends removing the following amount of concrete:

- Between sampling points B020, B022, B023, and B024 and at least 1.5' around the perimeter of sampling point B021; and
- Above the proposed soil removal area.

The proposed areas of concrete removal are outlined on Figure 11. The area of concrete removal is estimated to be 75 ft² (approximately 1.5 yd³).

e\rdm\rm\rcra closure summary

Americation Parc.

CLOSURE STANDARDS FOR THE FLAMMABLE STORAGE AREA

MacDermid, Inc.

526 Huntingdon Avenue

Waterbury, CT

(HRP #MAC-0030.RC)

| | Parameter | Direct Exposure Standard (mg/kg) | Leachate Standard (mg/l) |
|------|--|----------------------------------|--------------------------|
| 1. | Barium | 900 | 1.0 |
| 2. | Cadmium | 342 | 0.01 |
| 3. | Chromium, Total | 20,000 | 0.05 |
| 4. | Copper | 2,500² | 1.0 |
| 5. | Lead | 500² | 0.05 |
| 6. | Nickel | 300 | 0.7 |
| 7. | Tin | 40,6453 | 4.23 |
| 8. | Zinc | 20,000² | 5.0 |
| 9. | Cyanide | 300 | 0.2 |
| 10. | Sulfide ¹ | No Standard Available | No Standard Available |
| 11. | Acetone ¹ | 500 ² | 1405 |
| 12. | 2-Butanone (MEK) | 900 | 1.0 |
| 13. | Chlorobenzene | 500 | 0.1 |
| 14. | 1,4-Dioxane ¹ | 7453 | 153,4 |
| 15. | Ethyl Benzene | 5002 | 0.1 |
| 16. | Isobutanol | 5,000 | 10.0 |
| 17. | Methylene Chloride | 47 | 0.0047 |
| 18. | 4-Methyl-2-Pentanone ¹ (MIBK) | 500² | 145 |
| 19. | Tetrachloroethylene | 69 | 0.0069 |
| 20. | Toluene | 5,000 | 1.0 |
| 21. | 1,1,1-Trichloroethane | 2,000 | 0.2 |
| 22. | Trichlorofluoromethane | 5,000 | 10.0 |
| 23. | Trichloroethylene | 32 | 0.0032 |
| 24. | Xylene | 500 ² | 19.55 |
| 25. | Bis (2-ethylhexyl) phthalate1 | 442 | 115 |
| 26. | Di-n-butylphthalate1 | 1,000² | 1405 |
| NOTE | 1 | | |

NOTES:

Parameters and closure standards with no footnotes were listed in the 1994 CT DEP Approved Closure Plan

- ¹ Identified in December 1999 Appendix IX Sample.
- Residential Direct Exposure Criteria for Soil, CT Remediation Standard Regulation.
- Calculated Standard (see Appendix D)
- Calculated Standard units are in mg/kg.
- GB Pollutant Mobility Criteria for Soil, CT Remediation Standard Regulation (units are in mg/kg).

HRP

CLOSURE STANDARDS FOR THE SOLDER STRIPPER RECYCLING AREA

MacDermid, Inc.

526 Huntingdon Avenue Waterbury, CT

(HRP #MAC-0030.RC)

| | Parameter | Direct Exposure Standard (mg/kg) | Leachate Standard (mg/l) | |
|------|--|----------------------------------|--------------------------|--|
| 1. | Barium | 900 | 1.0 | |
| 2. | Cadmium | 342 | 0.01 | |
| 3. | Chromium, Total | 20,000 | 0.05 | |
| 4. | Copper | 2,500² | 1.0 | |
| 5. | Lead | 500 ² | 0.05 | |
| 6. | Nickel | 300 | 0.7 | |
| 7. | Tin | 40,645³ | 4.2 ³ | |
| 8. | Zinc | 20,000² | 5.0 | |
| 9. | Cyanide | 300 | 0.2 | |
| 10. | Sulfide ¹ | No Standard Available | No Standard Available | |
| 11. | Acetone ¹ | 500² | 1405 | |
| 12. | 2-Butanone (MEK) | 900 | 1.0 | |
| 13. | Chlorobenzene | 500 | 0.1 | |
| 14. | 1,4-Dioxane ¹ | 745³ | 15 ^{3,4} | |
| 15. | Ethyl Benzene | 500² | 0.1 | |
| 16. | Isobutanol | 5,000 | 10.0 | |
| 17. | Methylene Chloride | 47 | 0.0047 | |
| 18. | 4-Methyl-2-Pentanone ¹ (MIBK) | 500² | 145 | |
| 19. | Tetrachloroethylene | 69 | 0.0069 | |
| 20. | Toluene | 5,000 | 1.0 | |
| 21. | 1,1,1-Trichloroethane | 2,000 | 0.2 | |
| 22. | Trichlorofluoromethane | 5,000 | 10.0 | |
| 23. | Trichloroethylene | 32 | 0.0032 | |
| 24. | Xylene | 500 ² | 19.5 ⁵ | |
| 25. | Bis (2-ethylhexyl) phthalate1 | .442 | 11 ⁵ | |
| 26. | Butyl benzylphthalate1 | 1,0002 | 2005 | |
| 27. | Di-n-butylphthalate ¹ | 1,0002 | 1405 | |
| 28. | Di-n-octylphthalate1 | 1,000² | 205 | |
| NOTE | . €. | | | |

NOTES:

Parameters and closure standards with no footnotes were listed in the 1994 CT DEP Approved Closure Plan

- 1 Identified in December 1999 Appendix IX Sample.
- Residential Direct Exposure Criteria for Soil, CT Remediation Standard Regulation.
- 3 Calculated Standard (see Appendix D)
- Calculated Standard units are in mg/kg.
- ⁵ GB Pollutant Mobility Criteria for Soil, CT Remediation Standard Regulation (units are in mg/kg).

HRP

CLOSURE STANDARDS FOR THE NMP RECYCLING AREA

MacDermid, Inc.

526 Huntingdon Avenue

Waterbury, CT

(HRP #MAC-0030.RC)

| | Parameter | Direct Exposure Standard (mg/kg) | Leachate Standard (mg/l) |
|-----|-------------------------------|----------------------------------|--------------------------|
| 1. | Arsenic ¹ | 102 | 0.55 |
| 2. | Barium | 900 | 1.0 |
| 3. | Cadmium | 342 | 0.01 |
| 4. | Chromium, Total | 20,000 | 0.05 |
| 5. | Copper · | 2,500² | 1.0 |
| 6. | Lead | 500 ² | 0.05 |
| 7. | Nickel | 300 | 0.7 |
| 8. | Tin | 40,6453 | 4.23 |
| 9. | Zinc | 20,000² | 5.0 |
| 10. | Cyanide | 300 | 0.2 |
| 11. | Sulfide ¹ | No Standard Available | No Standard Available |
| 12. | Acetone ¹ | 500² | 1405 |
| 13. | 2-Butanone (MEK) | 900 | 1.0 |
| 14. | Benzyl Alcohol ¹ | 20,3233 | 4203,4 |
| 15. | Chlorobenzene | 500 | 0.1 |
| 16. | Ethyl Benzene | 500² | 0.1 |
| 17. | Isobutanol | 5,000 | 10.0 |
| 18. | Methylene Chloride | 47 | 0.0047 |
| 19. | Tetrachloroethylene | 69 | 0.0069 |
| 20. | Toluene | 5,000 | 1.0 |
| 21. | 1,1,1-Trichloroethane | 2,000 | 0.2 |
| 22. | Trichlorofluoromethane | 5,000 | 10.0 |
| 23. | Trichloroethylene | 32 | 0.0032 |
| 24. | Xylene | 5002 | 19.55 |
| 25. | Bis (2-ethylhexyl) phthalate1 | 442 | 115 |

NOTES:

Parameters and closure standards with no footnotes were listed in the 1994 CT DEP Approved Closure Plan

Identified in December 1999 Appendix IX Sample.

Residential Direct Exposure Criteria for Soil, CT Remediation Standard Regulation.

Calculated Standard (see Appendix D)

Calculated Standard units are in mg/kg.

GB Pollutant Mobility Criteria for Soil, CT Remediation Standard Regulation (units are in mg/kg, except arsenic which is mg/l)).

JANUARY 13, 2000 SUBSURFACE CLOSURE STANDARD EXCEEDANCES

MacDermid, Inc

526 Huntingdon Avenue

MAC-0030.RC

Solder Stripper Recycling Area

January 13, 2000

| į | Sundary 15, 2000 | | | | | | | |
|---------------------|--------------------|------------|------------------|-------------------|-----------|--|--|--|
| Sample | Parameter | Result | Direct Exposure | Leachate Standard | Computed | | | |
| (Type) | | | Standard (mg/kg) | (mg/l) | Leachate* | | | |
| | | | | | | | | |
| 004 - Solder St. 2 | Cadmium, Leachate | 0.077 mg/l | | 0.01 | | | | |
| (soil below cracked | Cadmium, Solid | 49 mg/kg | 34 | | | | | |
| slab) | Chromium, Leachate | 1.3 mg/l | | 0.05 | | | | |
| İ | Copper, Leachate | 5.9 mg/l | | 1 | | | | |
| | Copper, Solid | 3000 mg/kg | 2500 | | | | | |
| | Lead, Solid | 1300 mg/kg | 500 | | | | | |
| | Tin, Leachate | 22 mg/l | | 4.2 | | | | |
| | Trichloroethylene | 0.14 mg/kg | 32 | 0.0032 | 0.007 | | | |
| | | | · | | | | | |
| 012 - 2nd Slab | Cadmium, Leachate | 0.013 mg/l | | 0.01 | | | | |
| (concrete slab | Cadmium, Solid | 76 mg/kg | 34 | | | | | |
| beneath cracked | Nickel, Solid | 300 mg/kg | 360 | | | | | |
| slab) | | | | | | | | |

NMP Recycling Area

| Sample | Parameter | Result | Direct Exposure | Leachate Standard | Computed |
|------------------|--------------------|------------|-----------------|-------------------|-----------|
| | | | Standard (mg/l) | (mg/l) | Leachate* |
| | | | | | |
| 013 - NMP 1 | Chromium, Leachate | 0.64 mg/l | | 0.05 | |
| (concrete floor) | Copper, Leachate | 1.1 mg/l | | 1 | - |
| | Lead, Leachate | 0.062 mg/l | | 0.05 | |
| | Zinc, Leachate | 8.6 mg/l | | 5 | |
| | | | | | |
| 014 - NMP 2 | Chromium, Leachate | 0.68 mg/l | · | 0.05 | |
| (concrete floor) | Zinc, Leachate | 7.3 mg/l | | 5 | |
| | | | | | |

QA/QC Samples

| Sample | Parameter | Result | Direct Exposure | Leachate Standard | Computed |
|--|--------------|------------|--------------------|------------------------|-----------|
| | | | Standard (mg/kg) | (mg/l) | Leachate* |
| | Zinc | 0.026 mg/l | | | |
| 10 | Acetone | 0.005 mg/l | | | |
| (Equipment Blank) | Note: All re | maiming pa | rameters below lal | poratory detection lim | its. |
| | Zinc | 0.017 mg/l | | | |
| 11 | Acetone | 0.064 mg/l | | | |
| (Trip Blank) Note: All remaining parameters below laboratory detection limits. | | | | | its. |

*Computed Leachate (mg/l) Concentration (result / 20)

HRP

Associates Inc.

FEBRUARY 9 AND APRIL 27, 2000 SUBSURFACE SAMPLING RESULTS FOR THE FORMER NMP RECYCLING AREA

MacDermid, Inc. 546 Huntingdon Avenue Waterbury, CT

HRP #MAC0030.RC

| | February | 9, 2000 Sampling R | esults | |
|-------------------------|--------------------|--------------------|------------------------------------|--------------------------|
| Sample | Parameter | Result (mg/l) | Direct Exposure Standard (mg/l) | Leachate Standard (mg/l) |
| | | | | |
| 013b - NMP 1 | Chromium, Leachate | 5-30年 0.75 - 6世末 | | 0.05 |
| (lower half of concrete | Copper, Leachate | ND<0.01 | | 1 |
| floor (1/13/00)) | Lead, Leachate | ND<0.05 | | 0.05 |
| | Zinc, Leachate | 0.02 | | 5 |
| | | | | |
| 014b - NMP 2 | Chromium, Leachate | 0.7 | | 0.05 |
| (lower half of concrete | Zinc, Leachate | 0.016 | | 5 . |

April 27, 2000 Sampling Results

| Sample | Parameter | Result ¹ | Direct Exposure Standard (mg/l) | Leachate Standard (mg/l) |
|---|--------------------|---------------------|---------------------------------|--------------------------|
| 001 - NMP 1 (surface soil directly below sample 013b) | | ND<0.02 | | 0.05 |
| 002 - NMP 2 (surface soil directly below sample 014b) | Chromium, Leachate | ND<0.02 | | 0.05 |

ND = Not Detected

floor (1/13/00))

Shaded result exceeds its closure standard

FEBRUARY 9, 2000 SUBSURFACE SAMPLING RESULTS FOR THE FORMER SOLDER STRIPPER RECYCLING AREA

MacDermid, Inc 526 Huntingdon Avenue Waterbury, CT HRP #MAC-0030.RC

| Sample | Parameter | Result | Direct Exposure | Leachate | Computed |
|---------------------|--------------------|-------------------|-----------------|---------------------------------------|-----------|
| (Type) | | | Standard (mg/l) | Standard (mg/l) | Leachate* |
| | | | | | |
| B001 - Solder St. 2 | Cadmium, Leachate | 0.01 mg/l | | 0.01 | |
| (surface soil 2' NE | Cadmium, Solid | 10 mg/kg | 34 | | |
| of 004) | Chromium, Leachate | ●は、0.26mg/likeは | | 0.05 | |
| | Copper, Leachate | 0.97 mg/l | | 1 | |
| | Copper, Solid | 950 mg/kg | 2500 | , | |
| <u>'</u> | Lead, Solid | 79 mg/kg | 500 | | .] |
| | Tin, Leachate | 36 mg/l | | 4.2 | |
| | Trichloroethylene | ∞ 0.095 mg/kg 🦥 | 32 | 0.0032 | 0.00475 |
| | | | | | |
| B002 - Solder St. 2 | Cadmium, Leachate | ND<0.010 mg/l | | 0.01 | |
| (soil 1' below | Cadmium, Solid | .7 mg/kg | 34 | | |
| B001) | Chromium, Leachate | 0.043 mg/l | | 0.05 | |
| | Copper, Leachate | 0.17 mg/l | | 1 | |
| | Copper, Solid | 500 mg/kg | 2500 | | |
| | Lead, Solid | 55 mg/kg | 500 | | |
| | Tin, Leachate | 2.6 mg/l | | 4.2 | |
| | Trichloroethylene | 0.015 mg/kg | 32 | 0.0032 | 0.00075 |
| | | | | | |
| B003 - Solder St. 2 | Cadmium, Leachate | ND<0.010 mg/l | | 0.01 | |
| (surface soil 2' SW | Cadmium, Solid | :∵ 35 mg/kg 🚋 | 34 | | |
| of 004) | Chromium, Leachate | ND<0.040 mg/l | | 0.05 | |
| | Copper, Leachate | 0.086 mg/l | | 1 | |
| į | Copper, Solid | 450 mg/kg | 2500 | | |
| | Lead, Solid | 5-1700 mg/kg | 500 | | |
| | Tin, Leachate | 0.028 mg/l | | 4.2 | |
| | Trichloroethylene | 49 0.17 mg/kg 440 | 32 | 0.0032 | 0.0085 |
| | | | | · · · · · · · · · · · · · · · · · · · | |
| B004 - Solder St. 2 | Cadmium, Leachate | ND<0.010 mg/l | | 0.01 | |
| (soil 1' below | Cadmium, Solid | 5.3 mg/kg | 34 | | |
| B003) | Chromium, Leachate | ND<0.040 mg/l | | 0.05 | |
| | Copper, Leachate | 0.12 mg/l | | 1 | |
| | Copper, Solid | 88 mg/kg | 2500 | | |
| | Lead, Solid | 42 mg/kg | 500 | | |
| | Tin, Leachate | ND<0.020 mg/l | | 4.2 | |
| | Trichloroethylene | ND<0.010mg/kg | 32 | 0.0032 | 0.0005 |

FEBRUARY 9, 2000 SUBSURFACE SAMPLING RESULTS FOR THE FORMER SOLDER STRIPPER RECYCLING AREA

MacDermid, Inc 526 Huntingdon Avenue Waterbury, CT HRP #MAC-0030.RC

| | · · · · · · · · · · · · · · · · · · · | | | | |
|---------------------|---------------------------------------|----------------------|---------------------------------------|----------|--------|
| | | | | | |
| B005 - Solder St. 2 | Cadmium, Leachate | . 2. 0.084 mg/l- #±- | · · · · · · · · · · · · · · · · · · · | 0.01 | |
| (surface soil 2' NW | Cadmium, Solid | 7.6 mg/kg | 34 | | |
| of 004) | Chromium, Leachate | . • 0.94 mg/l 🛶 . | | 0.05 | |
| | Copper, Leachate | ነሬ። 14 mg/l ୁ የታ | | 1 | |
| | Copper, Solid | 1400 mg/kg | 2500 | | |
| Ì | Lead, Solid | 155,580 mg/kg | 500 | | |
| | Tin, Leachate | +≱*/> 19 mg/l ∺,⊪ | | 4.2 | |
| | Trichloroethylene | 0.046 mg/kg | 32 | 0.0032 | 0.0023 |
| | · | | | | |
| B006 - Solder St. 2 | Cadmium, Leachate | ND<0.010 mg/l | | 0.01 | |
| (soil 1' below | Cadmium, Solid | 5.8 mg/kg | 34 | | |
| B005) | Chromium, Leachate | ND<0.040 mg/l | | 0.05 | |
| | Copper, Leachate | 0.64 mg/l | | 1 | |
| | Copper, Solid | 370 mg/kg | 2500 | | |
| | Lead, Solid | 96 mg/kg | 500 | | |
| | Tin, Leachate | 0.24 mg/l | | 4.2 | |
| | Trichloroethylene | ND<0.010mg/kg | 32 | 0.0032 | 0.007 |
| | | | | | |
| B007 - Solder St. 2 | Cadmium, Leachate | ND<0.010 mg/l | | 0.01 | |
| (soil 1' below | Cadmium, Solid | 5.2 mg/kg | 34 | | |
| original 004) | Chromium, Leachate | | | 0.05 | 1 |
| | Copper, Leachate | 0.92 mg/l | · · · · · · · · · · · · · · · · · · · | 1 | |
| | Copper, Solid | 2100 mg/kg | 2500 | <u> </u> | |
| | Lead, Solid | 24 mg/kg | 500 | | |
| | Tin, Leachate | 0.58 mg/l | | 4.2 | 1 |
| | Trichloroethylene | ND<0.010mg/kg | 32 | 0.0032 | 0.007 |

FEBRUARY 9, 2000 SUBSURFACE SAMPLING RESULTS FOR THE FORMER SOLDER STRIPPER RECYCLING AREA

MacDermid, Inc 526 Huntingdon Avenue Waterbury, CT HRP #MAC-0030.RC

| Sample | Parameter | Result | Direct Exposure | Leachate Standard |
|-------------------------|---------------------|--------------------------------|-----------------|-------------------|
| (Type) | | (mg/l) | Standard (mg/l) | (mg/l) |
| 0010 0 1011 | 6.4. | | | |
| B010 - 2nd Slab | Cadmium, Leachate | | | 0.01 |
| (concrete slab | Cadmium, Solid | 75 mg/kg∗37; | 34 | |
| SE of original 012) | Nickel, Solid | 420 mg/kg | 360 | · |
| · | | | | |
| B011 - 2nd Slab | Cadmium, Leachate | 0.028 mg/l | | 0.01 |
| (concrete slab | Cadmium, Solid | ::585 mg/kg 🎥 | 34 | |
| NW of original 012) | Nickel, Solid | ≨# 400 mg/kg 💯 | 360 | |
| | | | | |
| B012 - 2nd Slab | Cadmium, Leachate | | | 0.01 |
| (concrete slab | Cadmium, Solid | 110 mg/kg | 34 | |
| NE of original 012) | Nickel, Solid | 450 mg/kg | 360 | |
| | | | | |
| 3 | Cadmium, Leachate | 0.025 mg/l | | 0.01 |
| (surface soil below | Cadmium, Solid | 15 mg/kg | 34 | |
| original 012 (1/13/00)) | Nickel, Solid | 72 mg/kg | 360 | |
| | | | | |
| Trip Blank | Cadmium | ND<0.010 mg/l | | |
| | Chromium | ND<0.040 mg/l | · | |
| | Copper | ND<0.030 mg/l | | |
| · | Lead | ND<0.050 mg/l | | |
| • | Nickel | ND<0.020 mg/l | | |
| | Tin | ND<0.010 mg/l | | |
| , . | Zinc | 0.023 mg/l | | |
| | Tetrachloroethylene | ND<0.0005 mg/l | | |
| | Trichloroethylene | ND<0.005 mg/l | | |
| Equipment Blank | Cadmium | ND<0.010 mg/l | | |
| Edaibineur pieur | Chromium | ND<0.040 mg/l | | |
| | Copper | ND<0.040 mg/l | | |
| - | | | | |
| | Lead Nickel | ND<0.050 mg/l ND<0.020 mg/l | | <u> </u> |
| } | Tin | | | |
| | | ND<0.010 mg/l | | |
| | Zinc | 0.018 mg/l | | |
| · . | Tetrachloroethylene | ND<0.0005 mg/l | | |
| ND = Not Detected | Trichloroethylene | ND<0.005 mg/l | | |

ND = Not Detected

Shaded result exceeded the closure standard

APRIL 23-28, 2000 SUBSURFACE SAMPLING RESULTS

FOR THE FORMER

SOLDER STRIPPER RECYCLING AREA

(around original sample 004)

MacDermid, Inc.

526 Huntingdon Avenue

Waterbury, CT

HRP #MAC0030.RC

| Sample (Type) | Parameter | Result | Direct Exposure Standard (mg/kg) | Leachate Standard (mg/l) | Computed/ Leachate (mg/l) Concentration (result / 20) |
|---|--------------------------|-----------------|---|--------------------------------|--|
| B007A - Solider St. 2 (soil 2' below 004) | Chromium , Leachate | 0.028 mg/l | | 0.05 | |
| | Cadmium, Leachate | 0.0074 mg/l | | 0.01 | |
| | Cadmium, Solid | 13 mg/kg | 34 | | |
| B013A – Solder St. 2 | Chromium, Leachate | ND <0.02 mg/l | | 0.05 | |
| (surface soil 4' NE of | Copper, Solid | 99 mg/kg | 2500 | | |
| 004) | Lead, Solid | 48 mg/kg | 500 | | |
| | Tin, Leachate | ND <0.01 mg/l | | 4.2 | |
| | Trichloroethylene, Solid | 0.0007 mg/kg | 32 | 0.0032 | 0.000035 ¹ |
| | Cadmium, Leachate | 0.0061 mg/l | | 0.01 | |
| | Cadmium, Solid | 13 mg/kg | 34 | | |
| 00400 0-11-010 | Chromium, Leachate | ND <0.020 mg/l | | 0.05 | |
| B013B – Solder St. 2 (soil 1' below B013A) | Copper, Solid | 86 mg/kg | 2500 | • | |
| (SOIL F DEIOW DO TON) | Lead, Solid | 51 mg/kg | 500 | | |
| e. | Tin, Leachate | 0.027 mg/l | | 4.2 | |
| | Trichloroethylene, Solid | 0.0017 mg/kg | 32 | 0.0032 | 0.0000851 |
| | Cadmium, Leachate | 0.0075 mg/l | | 0.01 | |
| · | Cadmium, Solid | 8.2 mg/kg | 34 | | |
| B014A – Solder St. 2 | Chromium, Leachate | ND <0.020 mg/l | | 0.05 | |
| (surface soil 4' NW | Copper, Solid | 72 mg/kg | 2500 | | |
| B001) | Lead, Solid | 40 mg/kg | 500 | | |
| • . | Tin, Leachate | ND <0.010 mg/l | | 4.2 | |
| | Trichloroethylene, Solid | 0.0052 mg/kg | 32 | 0.0032 | 0.00026 ¹ |
| | Cadmium, Leachate | 0.0067 mg/l | | 0.01 | |
| | Cadmium, Solid | 21 mg/kg | 34 | | |
| B014B – Solder St. 2 | Chromium, Leachate | ND <0.020 mg/l | | 0.05 | |
| (soil 1' below B014A) | Copper, Solid | 150 mg/kg | 2500 | | |
| (0011 1 001041 00 17/1) | Lead, Solid | 60 mg/kg | 500 | | |
| | Tin, Leachate | ND < 0.010 mg/l | | 4.2 | |
| | Trichloroethylene, Solid | 0.0055 mg/kg | 32 | 0.0032 | 0.000275 ¹ |

TABLE 7 (continued)

APRIL 23-28, 2000 SUBSURFACE SAMPLING RESULTS

FOR THE FORMER

SOLDER STRIPPER RECYCLING AREA

(around original sample 004)

MacDermid, Inc.

526 Huntingdon Avenue

Waterbury, CT

HRP #MAC0030.RC

| Sample (Type) | Parameter | Result | Direct Exposure Standard (mg/kg) | Leachate Standard (mg/l) | Computed/ Leachate (mg/l) Concentration (result / 20) |
|--|--------------------------|--------------------|---|--------------------------------|--|
| | Cadmium, Leachate | 0.006 mg/l | | 0.01 | |
| | Cadmium, Solid | 15 mg/kg | 34 | | |
| 015A - Solder St. 2 | Chromium, Leachate | ND <0.020 mg/l | | 0.05 | |
| (surface soil 4' NW | Copper, Solid | 560 mg/kg | 2500 | | |
| 004) | Lead, Solid | 61 mg/kg | 500 | | |
| · · | Tin, Leachate | 0.1 mg/l | | 42 . | |
| | Trichloroethylene, Solid | 0.018 mg/kg | 32 | 0.0032 | 0.0009 ¹ |
| | Cadmium, Leachate | 0.0067 mg/l | | 0.01 | |
| | Cadmium, Solid | 16 mg/kg | . 34 | | |
| | Chromium, Leachate | ND <0.020 mg/l | | 0.05 | |
| B015B – Solder St. 2 (soil 1' below B015A) | Copper, Solid | 380 mg/kg | 2500 | | |
| (SOIL I DEIOW BO 13A) | Lead, Solid | 83 mg/kg | 500 | | |
| Ì | Tin, Leachate | ND <0.010 mg/l | | 4.2 | |
| | Trichloroethylene, Solid | 0.018 mg/kg | 32 | 0.0032 | 0.0009 ¹ |
| | Cadmium, Leachate | 0.0054 mg/l | | 0.01 | |
| , | Cadmium, Solid | 18 mg/kg | 34 | | |
| B016A- Solder St. 2 | Chromium, Leachate | ND <0.020 mg/l | | 0.05 | |
| (surface soil 4' NW | Copper, Solid | 210 mg/kg | 2500 | | |
| B003) | Lead, Solid | 220 mg/kg | 500 | · | |
| | Tin, Leachate | 0.015mg/l | | 4.2 | |
| | Trichloroethylene, Solid | 0.039 mg/kg | 32 | 0.0032 | 0.00195 ¹ |
| | Cadmium, Leachate | .v./4, 0.015 mg/l⊡ | | 0.01 | |
| | Cadmium, Solid | 14 mg/kg | 34 | | |
| | Chromium, Leachate | ND <0.020 mg/l | | 0.05 | |
| B016B - Solder St. 2 (soil 1' below B016A) | Copper, Solid | 110 mg/kg | 2500 | · | |
| (2011) DEIOM DO TON) | Lead, Solid | 95 mg/kg | 500 | | |
| | Tin, Leachate | 0.018 mg/l | | 4.2 | |
| | Trichloroethylene, Solid | 0.014 mg/kg | 32 | 0.0032 | 0.00071 |

TABLE 7 (continued)

APRIL 23-28, 2000 SUBSURFACE SAMPLING RESULTS

FOR THE FORMER

SOLDER STRIPPER RECYCLING AREA

(around original sample 004)

MacDermid, Inc.

526 Huntingdon Avenue

Waterbury, CT

HRP #MAC0030.RC

| Sample (Type) | Parameter , | Result | Direct Exposure Standard (mg/kg) | Leachate Standard (mg/l) | Computed/ Leachate (mg/l) Concentration (result / 20) |
|---|--------------------------|-----------------|---|--------------------------------|--|
| | Cadmium, Leachate | ND <0.005 mg/l | | 0.01 | |
| | Cadmium, Solid | 15 mg/kg | 34 | | |
| B017A – Solder St. 2 | Chromium, Leachate | 0.033 mg/l | | 0.05 | |
| (surface soil 1.5' S of | Copper, Solid | 210 mg/kg | 2500 | | |
| B016A) | Lead, Solid | 310 mg/kg | 500 | | |
| | Tin, Leachate | ND <0.010 mg/l | | 4.2 | |
| | Trichloroethylene, Solid | 0.015 mg/kg | 32 | 0.0032 | 0.00075 ¹ |
| | Cadmium, Leachate | 0.016 mg/l | | 0.01 | |
| | Cadmium, Solid | -4 36 mg/kg | 34 | | |
| B017B - Solder St. 2 | Chromium, Leachate | ND <0.02 mg/l | | 0.05 | |
| (surface soil 1' below | Copper, Solid | 470 mg/kg | 2500 | | |
| B017A) | Lead, Solid | 150 mg/kg | 500 | | |
| | Tin, Leachate | 0.032 mg/l | | 4.2 | |
| | Trichloroethylene, Solid | 0.02 mg/kg | - 32 | 0.0032 | 0.0011 |
| | Cadmium, Leachate | ND <0.005 mg/l | * . | 0.01 | |
| | Cadmium, Solid | 4.3 mg/kg | 34 | | |
| B018A – Solder St. 2 | Chromium, Leachate | ND <0.02 mg/l | | 0.05 | |
| (surface soil 3' SE of 004 – other side of | Copper, Solid | 43 mg/kg | 2500 | | |
| wall) | Lead, Solid | 44 mg/kg | 500 | | |
| . (| Tin, Leachate | ND <0.010 mg/l | | 4.2 | |
| | Trichloroethylene, Solid | ND <0.010 mg/kg | 32 | 0.0032 | 0.0005 ¹ |
| · | Cadmium, Leachate | 0.0083 mg/l | | 0.01 | · |
| | Cadmium, Solid | 3.6 mg/kg | 34 | | , |
| D040D 0-1404-0 | Chromium, Leachate | 0.024 mg/l | | 0.05 | |
| B018B – Solder St. 2 (soil 1' below B018A) | Copper, Solid | 52 mg/kg | 2500 | | |
| (3011 1 DEION DO TON) | Lead, Solid | 20 mg/kg | 500 | | |
| · · | Tin, Leachate | 0.032 mg/l | | 4.2 | · · · · · · · · · · · · · · · · · · · |
| | Trichloroethylene, Solid | 0.0042 mg/kg | 32 | 0.0032 | 0.00021 ¹ |

ND = Not Detected



¹ Mass concentration (mg/kg) was divided by 20 to determine the maximum leachate concentration (mg/l). Shaded result exceeded its closure standard.

TABLE 7 (continued)

APRIL 23-28, 2000 SUBSURFACE SAMPLING RESULTS

FOR THE FORMER

SOLDER STRIPPER RECYCLING AREA

(around original sample 004)

MacDermid, Inc.

526 Huntingdon Avenue

Waterbury, CT HRP #MAC0030.RC

| Sample (Type) | Parameter | Result | Direct Exposure Standard (mg/kg) | Leachate Standard (mg/l) | Computed/ Leachate (mg/l) Concentration (result / 20) |
|------------------|---------------------|----------------|---|--------------------------------|--|
| | Cadmium | ND <0.005 mg/l | | | |
| | Copper | ND <0.001 mg/l | | · | |
| Tria Blook | Lead | ND <0.05 mg/l | | | |
| Trip Blank | Nickel | ND <0.002 mg/l | | | |
| , | Trichloroethylene | ND <0.005 mg/l | | | |
| | Tetrachloroethylene | ND <0.005 mg/l | | | |
| | Cadmium | ND <0.005 mg/l | | | |
| | Copper | ND <0.001 mg/l | | ŕ | |
| Contract Block | Lead | ND <0.05 mg/l | | 1 | |
| Equipment Blank | Nickel | ND <0.002 mg/l | | | |
| | Trichloroethylene | ND <0.005 mg/l | | | |
| | Tetrachloroethylene | ND <0.005 mg/l | | | |

APRIL 26-28 2000 SUBSURFACE SAMPLING RESULTS FOR THE FORMER SOLDER STRIPPER RECYCLING AREA

(around original sample 012) MacDermid, Inc. 526 Huntingdon Avenue Waterbury, CT HRP #MAC0030.RC

| Sample | Parameter | Result | Direct Exposure Standard | Leachate Standard |
|--|-------------------|----------------------------|-----------------------------|----------------------|
| B019A – soil (soil 1' below original 012) | Cadmium, Leachate | 0.02 mg/l := | | 0.01 mg/l |
| B020A – 2 nd Slab | Cadmium, Leachate | 0.04 mg/l | | 0.01 mg/l |
| (concrete slab 3.5' SE | Cadmium, Solid | 83 mg/kg | 34 mg/kg | |
| of original 012) | Nickel, Solid | 360 mg/kg | 360 mg/kg | |
| B021A – 2 nd Slab | Cadmium, Leachate | 0.37 mg/l | | 0.01 mg/l |
| (concrete slab 4' NE of | Cadmium, Solid | 75 mg/kg | 34 mg/kg | |
| B020A) | Nickel, Solid | .450 mg/kg | 360 mg/kg | |
| B022A – 2 nd Slab | Cadmium, Leachate | 0.029 mg/l | | 0.01 mg/l |
| (concrete slab 4' NE of | Cadmium, Solid | 79 mg/kg | 34 mg/kg | |
| original 012) | Nickel, Solid | 320 mg/kg | 360 mg/kg | |
| | Cadmium, Leachate | * 0.011 mg/l _{*/} | · | 0.01 mg/l |
| B023A – soil (surface soil 4' NW of B022A) | Cadmium, Solid | 18 mg/kg | 34 mg/kg | |
| 3011 - 1477 31 5025 17 | Nickel, Solid | 130 mg/kg | 360 mg/kg | |
| B024A – 2 nd Slab – | Cadmium, Leachate | 6:012 mg/l | | 0.01 mg/l |
| (concrete slab 4' NW | Cadmium, Solid | / 58 mg/kg | 34 mg/kg | • |
| of original 012) | Nickel, Solid | 110 mg/kg | 360 mg/kg | |

JUNE 13 2000 SUBSURFACE SAMPLING RESULTS FOR THE FORMER SOLDER STRIPPER RECYCLING AREA

(around original sample 012)
MacDermid, Inc.
526 Huntingdon Avenue
Waterbury, CT
HRP #MAC0030.RC

| Sample | Parameter | Result | Direct Exposure Standard | Leachate Standard |
|---------------------------------|-------------------|-------------|-----------------------------|----------------------|
| | Cadmium, Leachate | | · | 0.01 mg/l |
| B020B – Soil | Cadmium, Solid | 3.1 mg/kg | 34 mg/kg | |
| (beneath concrete sample B020A) | Nickel, Solid | 15 mg/kg | 360 mg/kg | |
| gample Bezerty | Nickel, Leachate | 0.33 mg/l | | 0.7 mg/l |
| | Cadmium, Leachate | 0.0077 mg/l | | 0.01 mg/l |
| B021B – Soil | Cadmium, Solid | 5.2 mg/kg | 34 mg/kg | |
| (beneath concrete sample B021A) | Nickel, Solid | 25 mg/kg | 360 mg/kg | |
| dampio 202 ir iy | Nickel, Leachate | 0.02 mg/l | | , 0.7 mg/l |
| | Cadmium, Leachate | <0.005 mg/l | | 0.01 mg/l |
| B022B – Soil | Cadmium, Solid | 5.1 mg/kg | 34 mg/kg | |
| (beneath concrete sample B022A) | Nickel, Solid | 19 mg/kg | 360 mg/kg | |
| Sample Bozzi () | Nickel, Leachate | 0.099 mg/l | | 0.7 mg/l |
| · | Cadmium, Leachate | 0.021 mg/l | | 0.01 mg/l |
| B024B – Soil | Cadmium, Solid | 3.5 mg/kg | 34 mg/kg | |
| (beneath concrete sample B024A) | Nickel, Solid | 30 mg/kg | 360 mg/kg | |
| 52p.6 252y | Nickel, Leachate | 0.48 mg/l | | 0.7 mg/l |

Shaded result exceeded its closure standard.

SUMMARY OF CONCRETE CHIP SAMPLING RESULTS

FOR THE FORMER

FLAMMABLE STORAGE AREA

MacDermid, Inc. 526 Huntingdon Avenue Waterbury, CT

HRP #MAC0030.RC

January 13, 2000

| Sample (Type) | ['] Parameter | Result | Direct Exposure Standard (mg/kg) | Leachate Standard (mg/l) | Computed/ Leachate (mg/l) Concentration (result / 20) |
|----------------------------|------------------------|------------|---|--------------------------------|--|
| 005 – Flammable | | | | ļ | |
| Storage (chip sam- | Trichloroethylene | 1.4 mg/kg | 69 | 0.0069 | 0.07 |
| ple) | Tetrachloroethylene | 0.12 mg/kg | 32 | 0.0032 | 0.006 |
| 007 – Flammable | | | | | |
| Storage (chip sam- ple) | Chromium, Leachate | 0.27 mg/l | | 0.05 | |

February 9, 2000

| · Sample (Type) | Parameter | Result | Direct Exposure Standard (mg/kg) | Leachate Standard (mg/l) |
|--|----------------------------------|----------------|--|-----------------------------|
| CC008 – Flammable Storage (chip sam- ple 6" NW of original | Trichloroethylene, Leachate | 0.011 mg/l | | 0:0069 |
| 005) | Tetrachloroethylene, Leachate | ND <0.010 mg/l | | 0.0032 |
| CC009 - Flammable | | | | |
| Storage (chip sam- ple 6" NW of original 007) | Chromium, Leachate | ND<0.010 mg/l | | 0.05 |

April 26, 2000

| Sample (Type) | Parameter | Result | Leachate Standard (mg/l) |
|---------------------------|-------------------------------|-------------|--------------------------|
| CC010 - Flammable Stor- | | | |
| age (chip sample 6* NW of | Tetrachloroethylene, Leachate | 0.0022 mg/l | 0.0032 |
| original 005) | | | |

ND = Not Detected

Shaded result exceeded its closure standard.

SUMMARY OF CONCRETE CHIP SAMPLING RESULTS (CLOSURE EXCEEDANCES)

FOR THE FORMER NMP RECYCLING AREA

MacDermid, Inc.

526 Huntingdon Avenue

Waterbury, CT

HRP #MAC0030.RC

August 10, 2000

| Sample | Parameter | Result | Direct Exposure Standard (mg/kg) | Leachate Standard (mg/l) |
|-------------|------------------------------|-----------------------|-------------------------------------|--------------------------|
| | | | Otanuaru (mg/kg) | <u> </u> |
| CC011 | Chromium, Leachate | 0.11 mg/l | | 0.05 |
| · | Zinc, Leachate | 5.4 mg/l | | 5.0 |
| 0.0004 | | 0.70 " | · | |
| CC021 | Nickel, Leachate | 0.72 mg/l | | 0.7 |
| | Zinc, Leachate | 7.1 mg/l | | 5.0 |
| CC022 | Chromium, Leachate | 0.87 mg/l | | 0.05 |
| | Zinc, Leachate | 6.4 mg/l | | 5.0 |
| CC033 | Chromium, Leachate | 0.11 mg/l | | 0.05 |
| CC023 | Zinc, Leachate | 0.11 mg/l 7.6 mg/l | | 5.0 |
| | Ziric, Leacriate | 7.6 mg/i | | 5.0 |
| CC024 | Chromium, Leachate | 0.4 mg/l | | 0.05 |
| CC025 | Zinc, Leachate | 6.8 mg/l | | 5.0 |
| CC026 | Chromium, Leachate | 0.36 mg/l | | 0.05 |
| CC027 | Chromium, Leachate | 0.057 mg/l | | 0.05 |
| CC028 | Chromium, Leachate | 0.062 mg/l | | 0.05 |
| | Bis (2-ethylhexyl) phthalate | 64 mg/kg | 44 | |
| | Oct | ober 3, 2000 | · | <u> </u> |
| CC030 | Chromium, Leachate | 0.053 mg/l | | 0.05 |
| | Omorniam, Ecochate | 0.000 mg/s | | 0.00 |
| CC032 | Chromium, Leachate | 0.37 mg/l | | 0.05 |
| | Zinc, Leachate | 5.2 mg/l | | 0.05 |
| CC033 | Chromium, Leachate | 0.37 mg/l | | 0.05 |
| | | 0.01 mg. | | 0.00 |
| CC034 | Chromium, Leachate | 0.069 mg/l | | 0.05 |
| CC035 | Chromium, Leachate | 0.15 mg/l | | 0.05 |
| CC036 | Chromium, Leachate | 0.11 mg/l | | 0.05 |
| CC037 | Chromium, Leachate | 0.13 mg/l | | 0.05 |

SUMMARY OF CONCRETE CHIP SAMPLING RESULTS FOR THE FORMER SOLDER STRIPPER RECYCLING AREA

MacDermid, Inc. 526 Huntingdon Avenue Waterbury, CT (HRP #MAC-0030.RC)

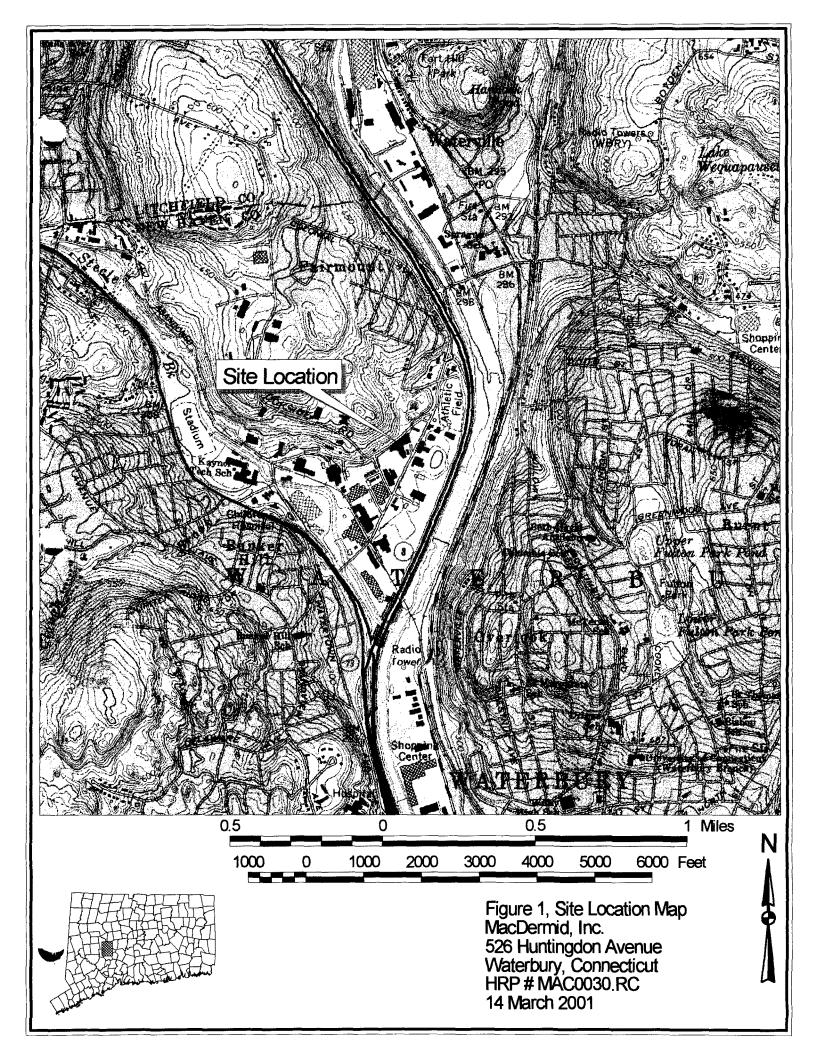
| Sample Number | Parameter | Result (mg/l) | Leachate Standard (mg/l) |
|-------------------|--------------------|---------------|--------------------------|
| CC016 | Cadmium, Leachate | ND <0.005 | 0.01 |
| | Chromium, Leachate | ND <0.02 | 0.05 |
| | Nickel, Leachate | 0.051 | 0.7 |
| | Zinc, Leachate | 0.051 | 5.0 |
| CC017 | Cadmium, Leachate | 0.01 | 0.01 |
| | Chromium, Leachate | ND <0.02 | 0.05 |
| | Nickel, Leachate | 0.07 | 0.7 |
| | Zinc, Leachate | 0.52 | 5.0 |
| CC018 | Cadmium, Leachate | ND <0.005 | 0.01 |
| | Chromium, Leachate | ND <0.02 | 0.05 |
| | Nickel, Leachate | 0.051 | 0.7 |
| | Zinc, Leachate | 0.91 | 5.0 |
| CC019 | Cadmium, Leachate | ND < 0.005 | 0.01 |
| | Chromium, Leachate | ND < 0.02 | 0,05 |
| | Nickel, Leachate | 0.044 | 0.7 |
| | Zinc, Leachate | 1.3 | 5.0 |
| CC020 | Cadmium, Leachate | ND < 0.005 | 0.01 |
| | Chromium, Leachate | ND <0.02 | 0.05 |
| · · | Nickel, Leachate | 0.049 | 0.7 |
| | Zinc, Leachate | 0.79 | 5.0 |
| ND = Not Detected | | | - |

FIGURES

e\rdm\m\rcra closure summary

HRP

0 -- 0



US EPA New England RCRA Document Management System Image Target Sheet

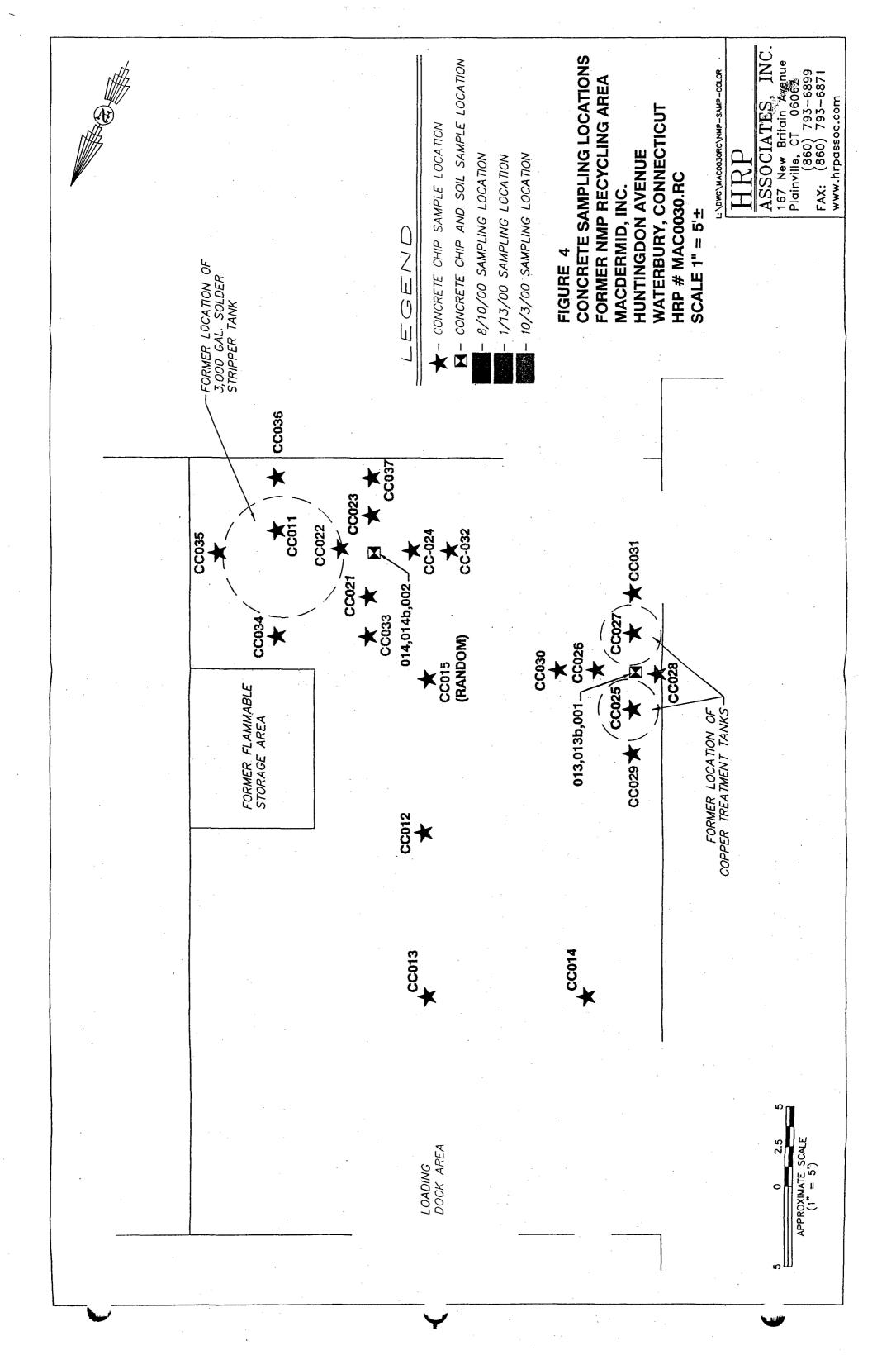
| | nt ID #100825 | |
|------------------|----------------------|----------------------------------|
| Facility Name: | MACDERMID I | NC . |
| Facility ID#: | CTD001164599 | |
| Phase Classifica | ntion: <u>R-1B</u> | |
| Purpose of Targ | get Sheet: | |
| [X] Oversized | (in Site File) [|] Oversized (in Map Drawer) |
| [] Page(s) M | lissing (Please Spec | ify Below) |
| [] Privileged | ı (| Other (Provide Purpose Below) |
| | | |
| Description of C | Oversized Materia | l, if applicable: |

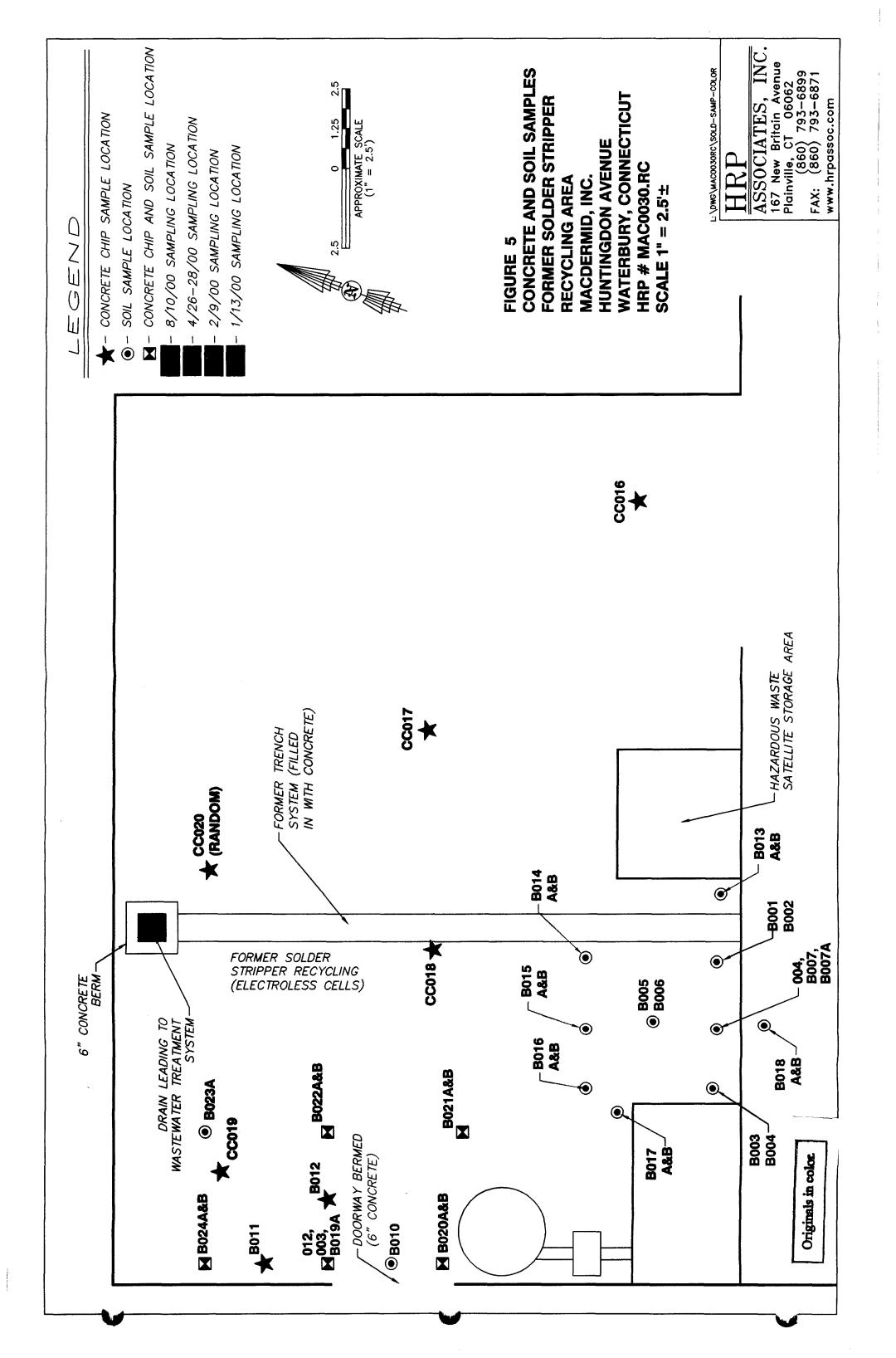
^{*} Please Contact the EPA New England RCRA Records Center to View This Document *

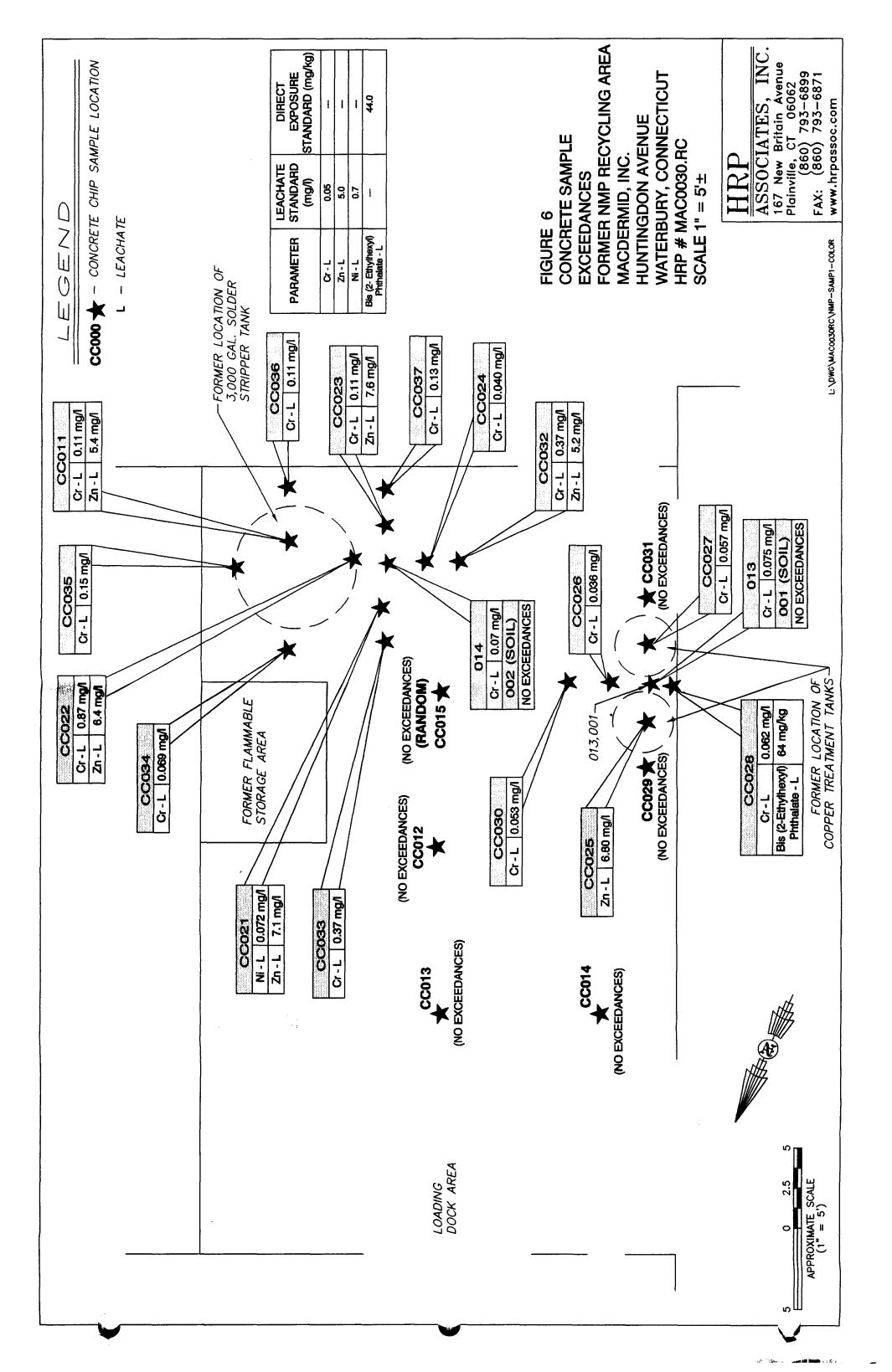
US EPA New England RCRA Document Management System Image Target Sheet

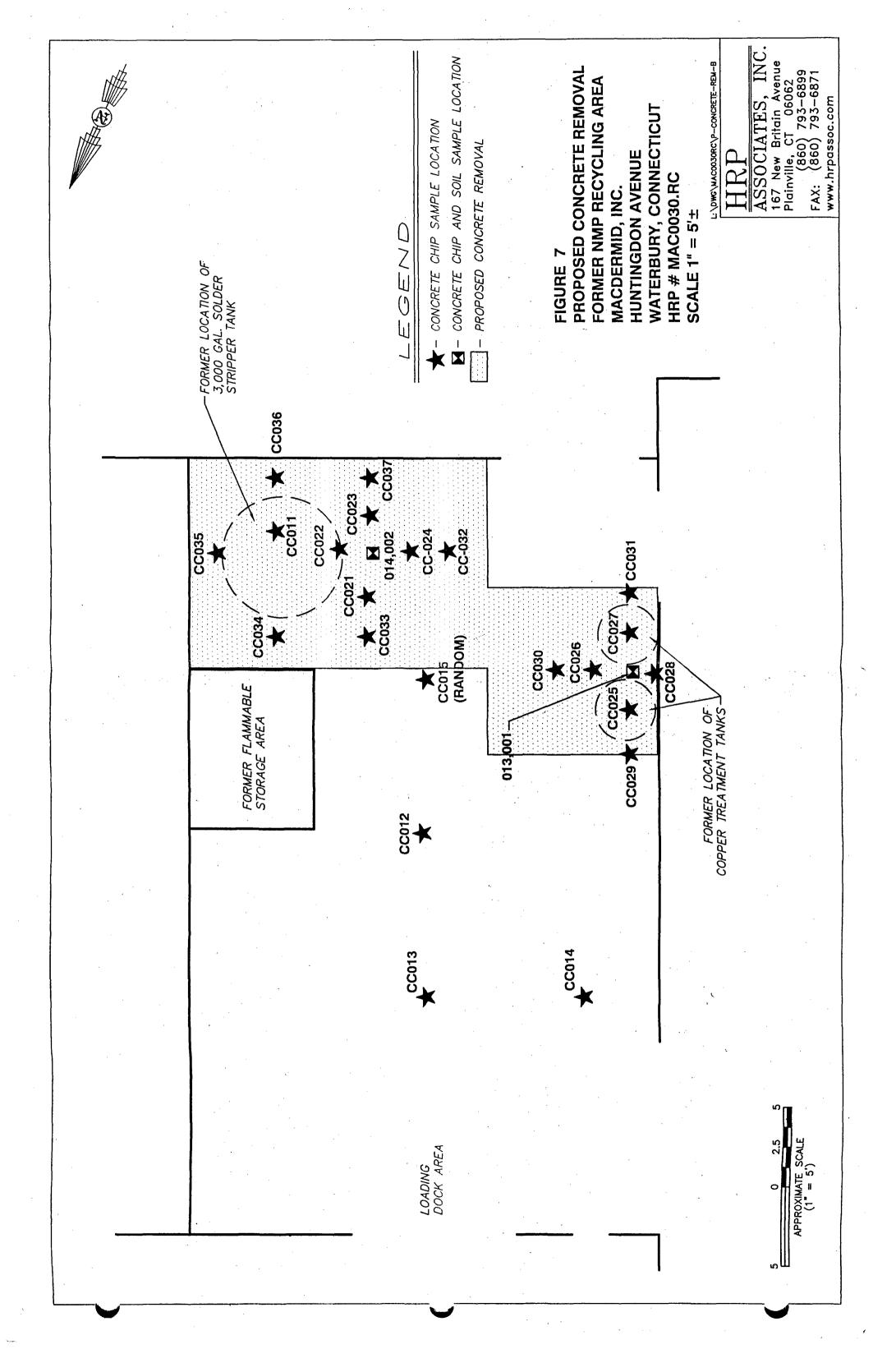
| ALL IVIN DOCU | ment ID # <u>10082</u> | 5 | | |
|---------------|------------------------|--------------|----------------------------------|------------|
| Facility Nam | e: <u>MACDERMI</u> | <u>D INC</u> | | |
| Facility ID#: | CTD001164599 | <u> </u> | | |
| Phase Classif | fication: R-1B | | | |
| Purpose of T | arget Sheet: | | | |
| [X] Oversiz | zed (in Site File) | [] | Oversized (in Ma | ap Drawer) |
| [] Page(s) |) Missing (Please S | pecify I | Below) | |
| [] Privile | ged | [] | Other (Provide Purpose Below) | |
| • | of Oversized Mate | ŕ | | |
| | | | | |

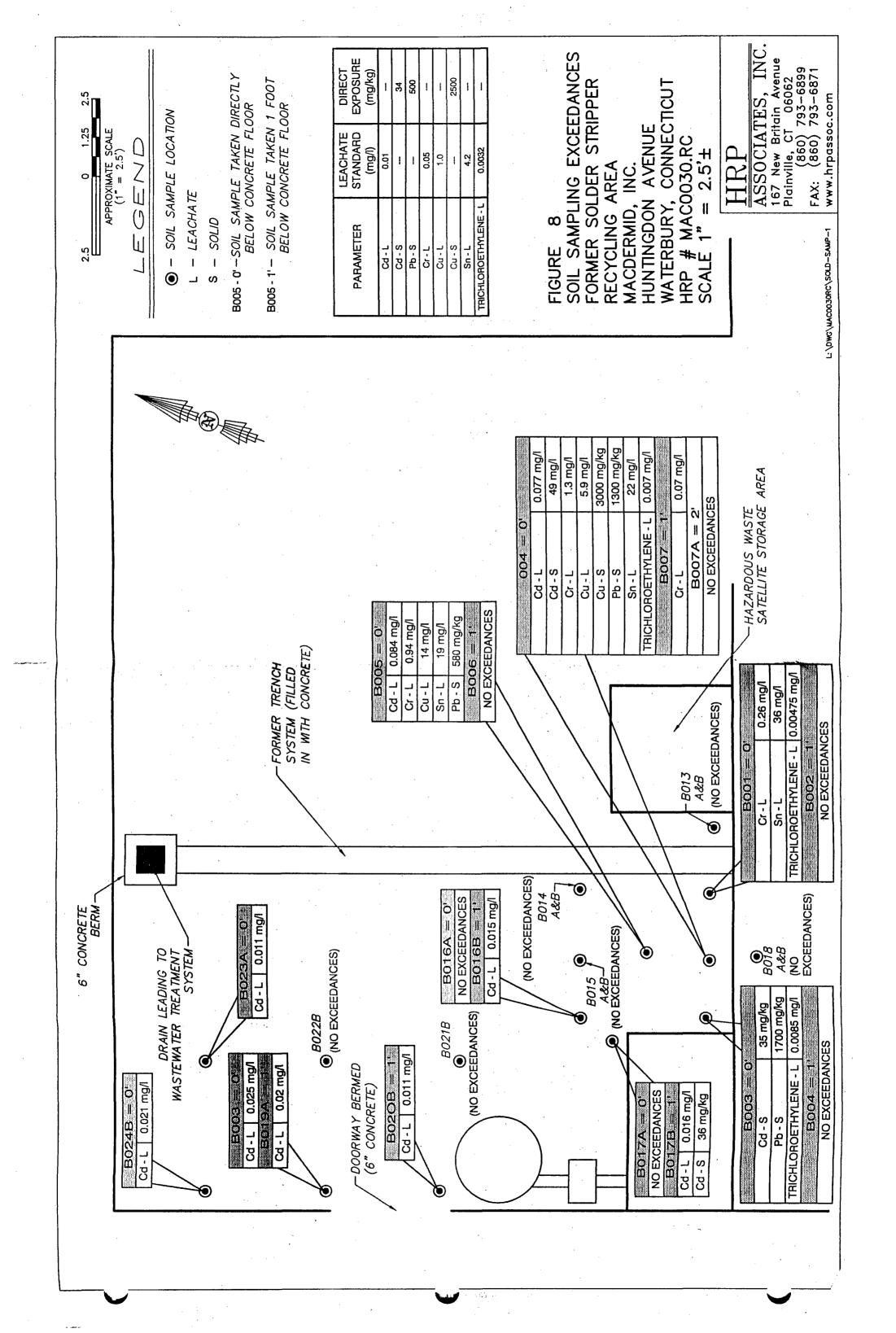
^{*} Please Contact the EPA New England RCRA Records Center to View This Document *

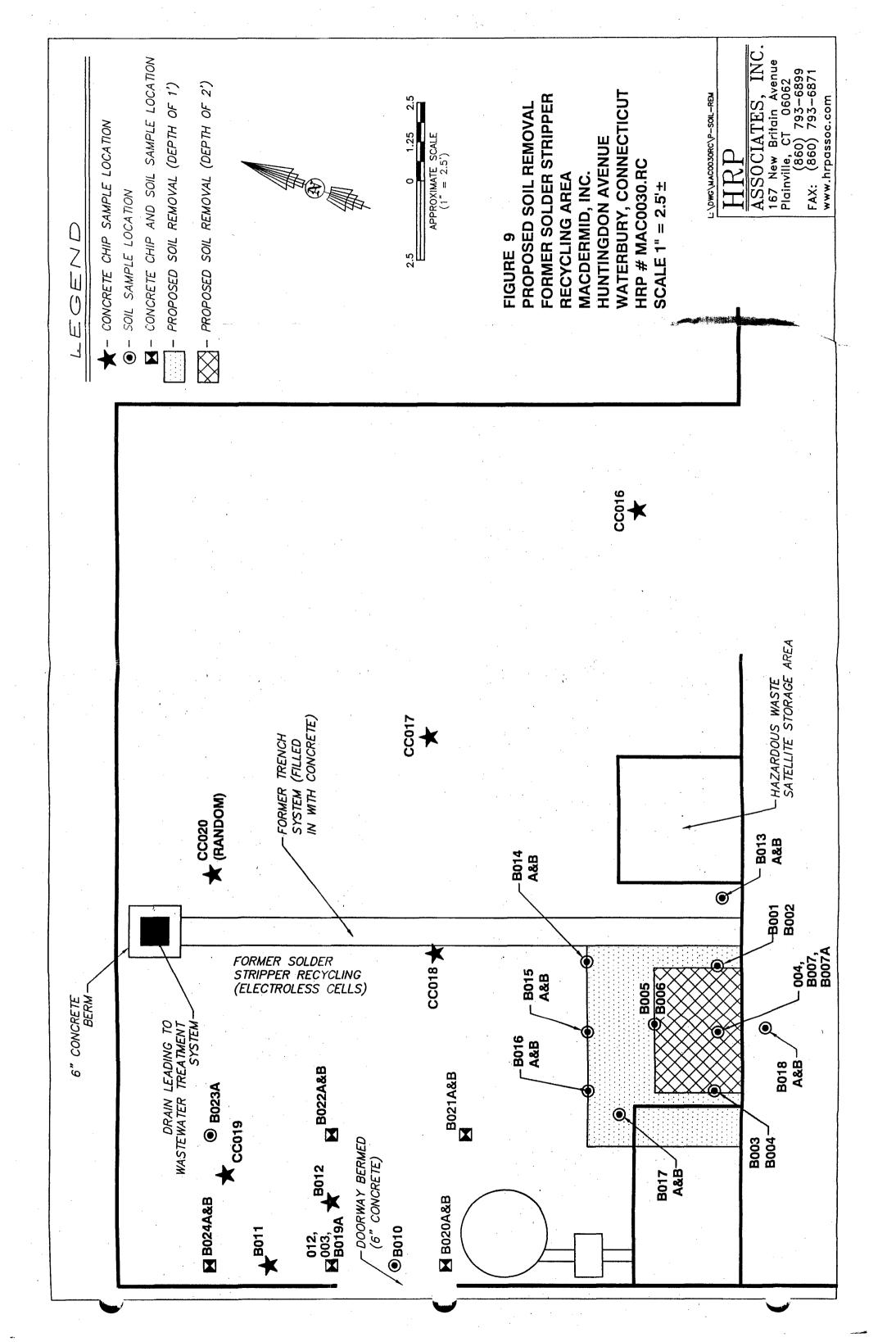


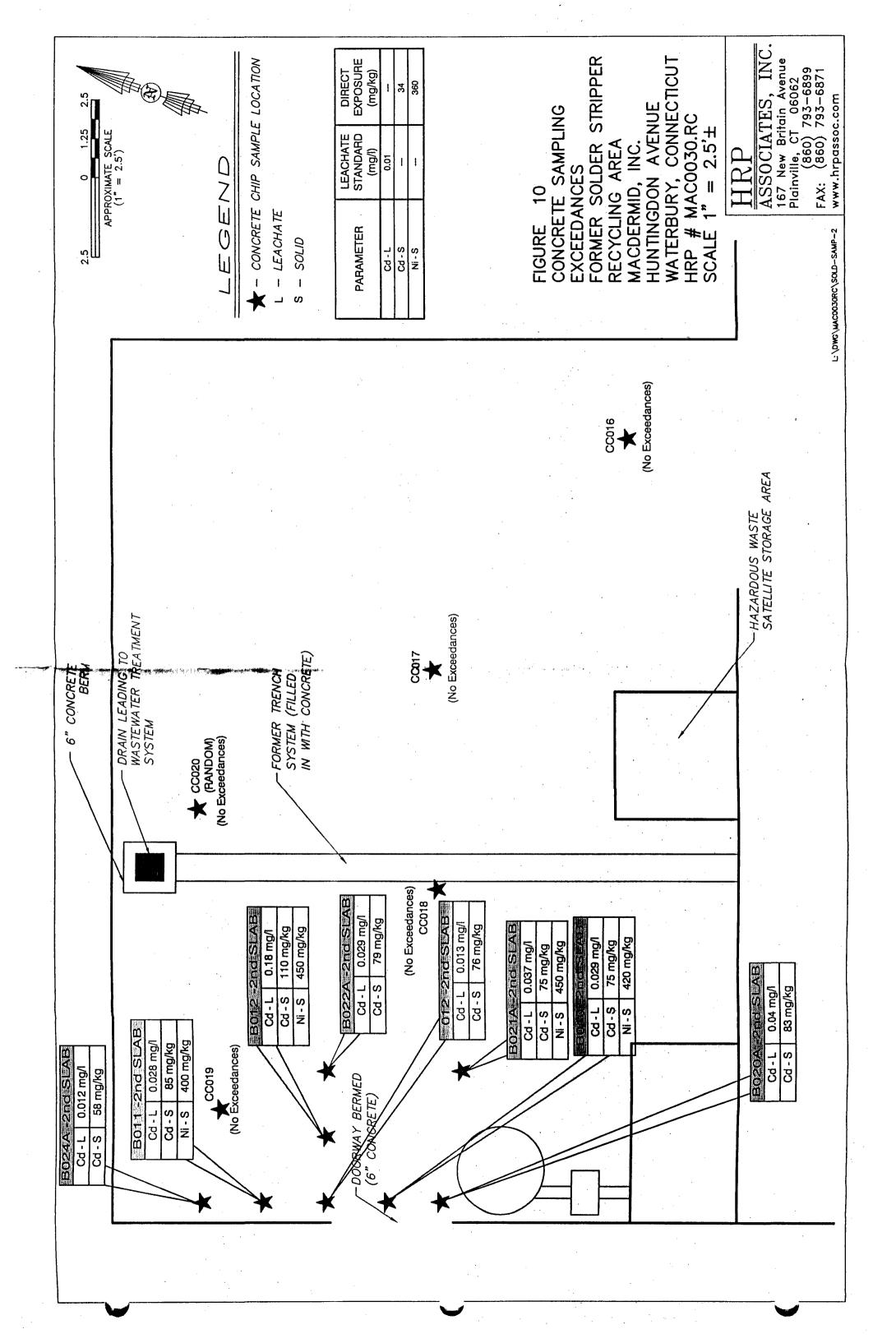


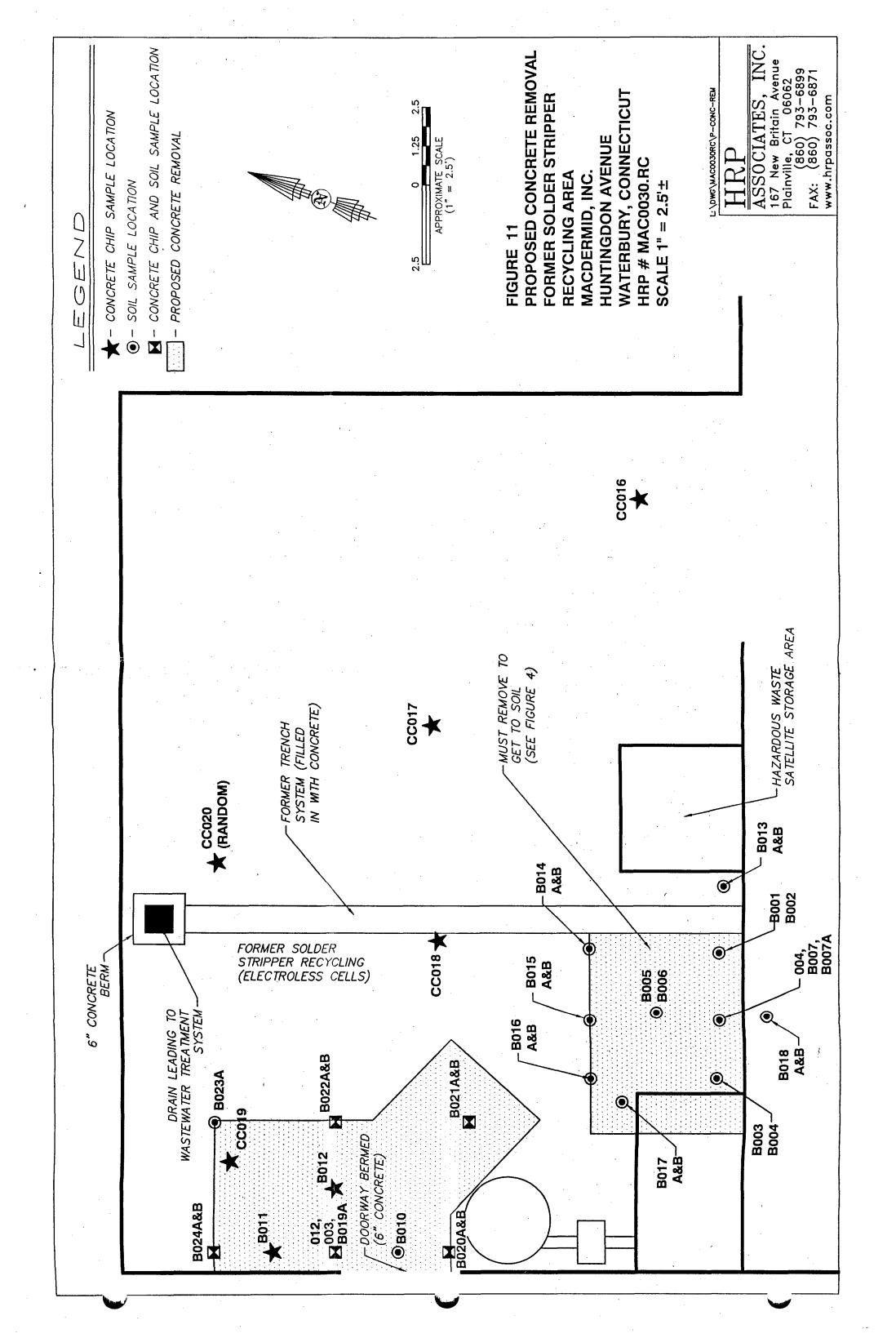












APPENDIX A

TCLP Analysis of Metal Hydroxide/Sulfide Sludge

e\rdm\m\rcra closure summary

HRP

Ameriater Inc.



911 Bridgeport Avenue 900 Shelton Plaza Shelton, CT 06484

Tel: (203) 925-1133 Fax: (203) 925-1140 e-mail: comenvtst@aol.com

July 22, 1999

Mr. Roger Bellmore R.M. Jones & Company 34 Ronzo Road Bristol, CT 06010

Project MacDermid
Project #: WWT-2
CET #: 99070310
Solid: WWT Sludge
Collection Date(s): 07/13/99

PREP ANALYSIS:

Ultasonic Extraction [EPA 3550B]

| Otrasome Director | ** [22,12,000,00] |
|----------------------|----------------------|
| | WWT Sludge |
| Ultasònic Extraction | Completed [07/16/99] |

| ICLP, Metals | [EPA 1311] |
|--------------|----------------------|
| | WWT Sludge |
| TCLP, Metals | Completed [07/14/99] |

ANALYSIS:

TCLP Mercury [EPA 245.2] Units: mg/l Analysis Date: 07/16/99

| | WWT Sludge |
|--------------|------------|
| TCLP Mercury | ND < 0.002 |

NOTES:

[] Indicates Date Prep Test Completed; ND is Not Detected.

Project#: WWT-2 Cer#: 99070310 Project MacDermid

- 2 -

July 22, 1999

Moisture Content [EPA 8260] Units: % Analysis Date: 07/15/99

WWT Sludge
Moisture Content 49

Paint Filter Test [EPA 9095] Units: Std. units Analysis Date: 07/14/99

| | WWT Sludge |
|-------------------|----------------|
| Paint Filter Test | No Free Liquid |

pH [EPA 9045C] Analysis Date: 07/14/99

| | WWT Sludge |
|----|------------|
| pН | 7.66 |

TCLP Metals [EPA 6010] Units: mg/L Analysis Date: 07/14/99

| | WWT Sludge |
|----------|------------|
| Lead | 0.017 |
| Selenium | ND < 0.01 |
| Cadmium | ND < 0.005 |
| Chromium | ND < 0.05 |
| Arsenic | 0.36 |
| Bacium | 0.33 |
| Silver | ND < 0.02 |

APPENDIX B

Table 13.1 of 1994 Hazardous Waste Closure Plan

e\rdm\m\rcra closure summary

HRP

TABLE 13.1

CLOSURE PERFORMANCE STANDARD FOR EACH HAZARDOUS CONSTITUENT

MACDERMID, INC. 526 HUNTINGDON AVENUE WATERBURY, CT

| Hazardous Constituent | MCL ^{1,2} (mg/l) | RSD³ Water (mg/l) | RSD³ Concrete (mg/kg) | RFD ⁴ Water (mg/l) | RFD ⁴ Concrete (mg/kg) |
|--|--|-------------------------|-----------------------------|-------------------------------------|---|
| Barium Cadmium Chromium, Total Cyanide Copper Lead Nickel Tin Zinc | 1.0 ⁵ 0.01 ⁵ 0.05 ⁵ 0.2 ⁵ 1.0 ⁶ 0.05 ⁵ 1.0 ⁶ 5.0 ⁶ | | | 2.0 40 0.7 0.7 | 900 20,000 300 300 |
| Chlorobenzene | 0.17 | *** | • | 1.0 | 500 |
| Ethyl Benzene | 0.17 | | | | |
| Isobutanol Methylene Chloride | 0.025 ⁷ | 0.0047 | 47 | 10.0 2.0 | 5,000 1,000 |
| Methyl Ethyl Ketone | 1.07 | | | 2.0 | 900 |
| Tetrachioroethylene | 0.027 | 0.0069 | 69.0 | 0.4 | 200 |
| Toluene | 1.07 | | | 10.0 | 5,000 |
| 1,1,1-Trichloroethane | 0.2 | | | 3.0 | 2,000 |
| Trichlorofluoromethane | | | , | 10.0 | 5,000 |
| Trichloroethylene | 0.005 | 0.0032 | 32 | | |
| Xylene | · . | *** | | | |

¹ Maximum Contaminant Level

When MCL's are not available other standards such as Connecticut Volatile Organic Action Levels will be used if available.

^a Risk-Specific Doses

Verified Reference Doses

U.S. EPA Drinking Water Standard

CT Drinking Water Standard

⁷ CT-Volatile Organic Action Level

APPENDIX C

December 1999 Appendix IX Laboratory Report

e\rdm\m\rcra closure summary

HRP

Association Inc



December 28, 1999

Client: MACDERMID, INC.

245 Freight Street Waterbury, CT 06702-

Attention: Mr. Greg Strong

EAS Project Number: 3211-99

Sample Number(s): 9913767, 9913768, 9913769, 9913770, 9913771,

9913772

Copies of this report and the supporting computer data are retained in our files in the event they are required for future reference.

Any sample submitted to our laboratory will be retained for a maximum of thirty (30) days from receipt of the sample.

All analytical data, unless otherwise specified, is reported on a wet weight (as received) basis.

Our laboratory is a multi-state Certified Public Health Laboratory, offering a full range of analytical services which include:

Drinking Water Analysis
Water and Wastewater Analysis
Hazardous Waste Analysis (RCRA)
Full Priority Pollutant Analysis
Field Sampling

Gregory C. Lawrence Laboratory Director

105 COMMERCIAL STREET WATERTOWN, CT 06795 PHONE (960) 274-5461 FAX (960) 945-0449

Location Collected: Electro Cells Date Sample Collected: 12/02/1999

Sample Description: CC001 EAS Project Number: 3211-99 EAS Sample Number: 9913767

| | | • | | |
|--|---------------|-----------------------|----------------|------------------|
| Parameter | Data | Quantitation Limit | Units | Analysis Date |
| T GET GITTION OF THE STATE OF T | | | UIIILS | Date |
| | | | | |
| Volatile Organic Comp. Appendix | IX - Method S | SW-846-8260 | | |
| 1,1,1,2-Tetrachloroethane | BQL | 10. | ug/kg | 12/21/99 |
| 1,1,1-Trichloroethane | BQL | 10. | ug/kg | 12/21/99 |
| 1,1,2,2-Tetrachloroethane | BQL | 10. | ug/kg | 12/21/99 |
| 1,1,2-Trichloroethane | BQL | 10. | ug/kg | 12/21/99 |
| 1,1-Dichloroethane | BQL | 10. | ug/kg | 12/21/99 |
| 1,1-Dichloroethene | BQL | 10. | ug/kg | 12/21/99 |
| 1,2-Dibromoethane | BQL | 10. | ug/kg | 12/21/99 |
| 1,2-Dichloroethane | BQL | 10. | ug/kg | 12/21/99 |
| 1,2-Dichloropropane | BQL | 10. | ug/kg | 12/21/99 |
| 1,4-Dioxane | 2200. | 100. | ug/kg | 12/21/99 |
| Dibromochloromethane | BQL | 10. | ug/kg | 12/21/99 |
| Dibromomethane | BQL | 10. | ug/kg | 12/21/99 |
| Dichlorodifluoromethane | BQL | 10. | ug/kg | 12/21/99 |
| 2-Hexanone | BQL | 10. | ug/kg ug/kg | 12/21/99 |
| 4-Methyl-2-pentanone | 47 .1 | 10. | ug/kg ug/kq | 12/21/99 |
| Acetone | 150 | 10. | ug/kg ug/kg | 12/21/99 |
| Acetonitrile | BQL | 100. | ug/kg ug/kg | 12/21/99 |
| Acrolein | BQL | 10. | ug/kg ug/kg | 12/21/99 |
| Acrylonitrile | BQL | 10. | ug/kg | 12/21/99 |
| Allyl Chloride | BQL | 10. | ug/kg | 12/21/99 |
| Benzene | BQL | 10. | ug/kg | 12/21/99 |
| Bromodichloromethane | BQL | 10. | ug/kg | 12/21/99 |
| Bromomethane | BQL | 10. | ug/kg | 12/21/99 |
| Bromoform | BQL | 10. | ug/kg | 12/21/99 |
| cis-1,2-Dichloroethene | BQL | 10. | ug/kg | 12/21/99 |
| cis-1,3-Dichloropropene | BQL | 10. | ug/kg | 12/21/99 |
| Carbon disulfide | BQL | 10. | ug/kg | 12/21/99 |
| Carbon tetrachloride | BQL | 10. | ug/kg | 12/21/99 |
| Chloroform | BQL | 10. | ug/kg | 12/21/99 |
| Chloroprene | BQL | 200. | ug/kg | 12/21/99 |
| Chlorobenzene | BOL | 10. | ug/kg | 12/21/99 |
| Chloroethane | BQL | 10. | ug/kg | |
| Chloromethane | BQL | 10. | | 12/21/99 |
| 1,2-Dibromo-3-chloropropane | BQL | 10. | ug/kg | 12/21/99 |
| Ethylbenzene | BQL | 10. | ug/kg | 12/21/99 |
| Ethyl methacrylate | BQL | 10. | ug/kg | 12/21/99 |
| Iodomethane | BQL | 10. | ug/kg | 12/21/99 |
| iso-Butanol | BQL | 200. | | 12/21/99 |
| 100 2004 | ~2.0 | 200. | ug/kg : | 12/21/99 |

Location Collected: Electro Cells Date Sample Collected: 12/02/1999

Sample Description: CC001 EAS Project Number: 3211-99 EAS Sample Number: 9913767

Date Sample Received: 12/02/1999

| | Parameter | Data | Quantitation Limit | Units | Analysis Date |
|---|-----------------------------|------|-----------------------|----------------|------------------|
| | Methylene chloride | BQL | 10. | ug/kg | 12/21/99 |
| | 2-Butanone (MEK) | 12. | 10. | ug/kg ug/kg | 12/21/99 |
| | Methylacrylonitrile | BQL | 10. | ug/kg ug/kg | 12/21/99 |
| | Methyl methacrylate | BQL | 10. | ug/kg ug/kg | 12/21/99 |
| | Pentachloroethane | BQL | 10. | ug/kg | 12/21/99 |
| | Propionitrile | BQL | 200 | ug/kg | 12/21/99 |
| | Styrene | BQL | 10. | ug/kg | 12/21/99 |
| | trans-1,2-Dichloroethene | BQL | 10. | ug/kg | 12/21/99 |
| | trans-1,3-Dichloropropene | BQL | 10. | ug/kg | 12/21/99 |
| | trans-1,4-Dichloro-2-butene | BQL | 10. | ug/kg | 12/21/99 |
| | Tetrachloroethylene | BQL | 10. | ug/kg | 12/21/99 |
| 1 | Toluene | BQL | 10. | ug/kg | 12/21/99 |
| | Total Xylenes | BQL | 10. | ug/kg | 12/21/99 |
| | Trichloroethylene | BQL | 10. | ug/kg | 12/21/99 |
| | Trichlorofluoromethane | BQL | 10. | ug/kg | 12/21/99 |
| | Vinyl acetate | BQL | 10. | ug/kg | 12/21/99 |
| | Vinyl chloride | BQL | 10. | ug/kg | 12/21/99 |

BQL = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

- 1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.
- Clean Water Act, List of Approved Test Procedures, 40 CFR.
- 3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

Location Collected: < 90 Day

Date Sample Collected: 12/02/1999 Sample Description: CC003

Sample Description: CC003 EAS Project Number: 3211-99 EAS Sample Number: 9913768

| | • | | | |
|------------------------------|-----------------|-----------------------|--------|------------------|
| Parameter | Data | Quantitation Limit | Units | Analysis Date |
| | | | | |
| Volatile Organic Comp. Appen | dix IX - Method | SW-846-8260 | | |
| 1,1,1,2-Tetrachloroethan | | 10. | ug/kg | 12/21/99 |
| 1,1,1-Trichloroethane | BQL | 10. | ug/kg | 12/21/99 |
| 1,1,2,2-Tetrachloroethan | | 10. | ug/kg | 12/21/99 |
| 1,1,2-Trichloroethane | BQL | 10. | ug/kg | 12/21/99 |
| 1,1-Dichloroethane | BQL | 10. | ug/kg | 12/21/99 |
| 1,1-Dichloroethene | BQL | 10. | ug/kg | 12/21/99 |
| 1,2-Dibromoethane | BQL · | 10. | ug/kg | |
| 1,2-Dichloroethane | BQL | 10. | | 12/21/99 |
| 1,2-Dichloropropane | BQL | 10. | ug/kg | 12/21/99 |
| 1,4-Dioxane | 670. | | ug/kg | 12/21/99 |
| Dibromochloromethane | | 100. 10. | ug/kg | 12/21/99 |
| Dibromomethane | BQL | | ug/kg | 12/21/99 |
| Dichlorodifluoromethane | BQL | 10. | ug/kg | 12/21/99 |
| 2-Hexanone | BQL | 10. | ug/kg | 12/21/99 |
| 4-Methyl-2-pentanone | BQL | 10. | ug/kg | 12/21/99 |
| <u> </u> | 32* | 10. | ug/kg | 12/21/99 |
| Acetone Acetonitrile | 40007 | 10. | ug/kg | 12/21/99 |
| | BQL | 100. | ug/kg | 12/21/99 |
| Acrolein | BQL | 10. | ug/kg | 12/21/99 |
| Acrylonitrile | BQL | 10. | ug/kg | 12/21/99 |
| Allyl Chloride | BQL | 10. | ug/kg | 12/21/99 |
| Benzene | BQL | 10. | ug/kg | 12/21/99 |
| Bromodichloromethane | BQL | 10. | ug/kg | 12/21/99 |
| Bromomethane | BQL | 10. | ug/kg | 12/21/99 |
| Bromoform | BQL | 10. | ug/kg | 12/21/99 |
| cis-1,2-Dichloroethene | BQL | 10. | ug/kg | 12/21/99 |
| cis-1,3-Dichloropropene | BQL | 10. | ug/kg | 12/21/99 |
| Carbon disulfide | BQL | 10. | ug/kg | 12/21/99 |
| Carbon tetrachloride | BQL | 10. | ug/kg | 12/21/99 |
| Chloroform | BQL | 10. | ug/kg | 12/21/99 |
| Chloroprene | BQL | 200. | ug/kg | 12/21/99 |
| Chlorobenzene | BQL | 10. | ug/kg | 12/21/99 |
| Chloroethane | BQL | 10. | ug/kg | 12/21/99 |
| Chloromethane | BQL | 10. | ug/kg | 12/21/99 |
| 1,2-Dibromo-3-chloropropa | | 10. | ug/kg | 12/21/99 |
| Ethylbenzene | 2100. | 10. | ug/kg | 12/21/99 |
| Ethyl methacrylate | BQL | 1.0. | ug/kg | 12/21/99 |
| Iodomethane | BQL | 10. | ug/kg | 12/21/99 |
| iso-Butanol | BQL | 200. | ug/kg | 12/21/99 |
| | | - | -21,12 | +4/64/00 |

Location Collected: < 90 Day

Date Sample Collected: 12/02/1999

Sample Description: CC003 EAS Project Number: 3211-99 EAS Sample Number: 9913768

Date Sample Received: 12/02/1999

| | Parameter | Data | Quantitation Limit | Units | Analysis Date |
|--------|-----------------------------|-------------|-----------------------|-------|------------------|
| • | Methylene chloride | 23 } | 10. | ug/kg | 12/21/99 |
| | 2-Butanone (MEK) | 100. | 10. | ug/kg | 12/21/99 |
| | Methylacrylonitrile | BQL | 10. | ug/kg | 12/21/99 |
| | Methyl methacrylate | BQL | 10. | ug/kg | 12/21/99 |
| | Pentachloroethane | BQL | 10. | ug/kg | 12/21/99 |
| | Propionitrile | BQL | 200. | ug/kg | 12/21/99 |
| | Styrene | BQL | 10. | ug/kg | 12/21/99 |
| | trans-1,2-Dichloroethene | BQL | 10. | ug/kg | 12/21/99 |
| | trans-1,3-Dichloropropene | BQL | 10. | ug/kg | 12/21/99 |
| | trans-1,4-Dichloro-2-butene | BQL | 10. | ug/kg | 12/21/99 |
| | Tetrachloroethylene | 50. | 10. | ug/kg | 12/21/99 |
| السيلة | Toluene | 1707 | 10. | ug/kg | 12/21/99 |
| | Total Xylenes | 12. | 0.010 | mg/kg | 12/21/99 |
| | Trichloroethylene | 73. | 10. | ug/kg | 12/21/99 |
| | Trichlorofluoromethane | BQL | 10. | ug/kg | 12/21/99 |
| | Vinyl acetate | BQL | 10. | ug/kg | 12/21/99 |
| | Vinyl chloride | BQL | 10. | ug/kg | 12/21/99 |

* Comments *

Total Xylenes units are mg/kg.

Location Collected: < 90 Day

Date Sample Collected: 12/02/1999

Sample Description: CC003 EAS Project Number: 3211-99 EAS Sample Number: 9913768

Date Sample Received: 12/02/1999

Parameter

Data

Quantitation Limit

Units

Analysis Date

BQL = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

- 1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.
- 2. Clean Water Act, List of Approved Test Procedures, 40 CFR.
- 3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

Location Collected: Stripper Room Date Sample Collected: 12/02/1999

Sample Description: CC005 EAS Project Number: 3211-99 EAS Sample Number: 9913769

| | | | | • |
|---|---|---|--|--|
| Parameter | Data | Quantitation Limit | Units | Analysis Date |
| Volatile Organic Comp. Append 1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane 1,1,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane | BQL B QL | -846-8260 10. 10. 10. 10. 10. | ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg | 12/21/99 12/21/99 12/21/99 12/21/99 12/21/99 12/21/99 |
| 1,2-Dibromoethane 1,2-Dichloroethane 1,2-Dichloropropane 1,4-Dioxane Dibromochloromethane Dibromomethane Dichlorodifluoromethane | BQL BQL BQL BQL BQL BQL BQL | 10. 10. 10. 10. 10. 10. | ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg | 12/21/99 12/21/99 12/21/99 12/21/99 12/21/99 12/21/99 12/21/99 |
| 2-Hexanone 4-Methyl-2-pentanone Acetone Acetonitrile Acrolein Acrylonitrile | BQL BQL BQL BQL BQL | 10. 10. 10. 100. 10. | ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg | 12/21/99 12/21/99 12/21/99 12/21/99 12/21/99 12/21/99 |
| Allyl Chloride Benzene Bromodichloromethane Bromomethane Bromoform cis-1,2-Dichloroethene cis-1,3-Dichloropropene Carbon disulfide | BQL BQL BQL BQL BQL BQL BQL | 10. 10. 10. 10. 10. 10. 10. | ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg | 12/21/99 12/21/99 12/21/99 12/21/99 12/21/99 12/21/99 |
| Carbon district Carbon tetrachloride Chloroform Chloroprene Chlorobenzene Chloroethane Chloromethane 1,2-Dibromo-3-chloropropan Ethylbenzene | BQL BQL BQL BQL BQL BQL | 10. 10. 200. 10. 10. 10. | ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg | 12/21/99 12/21/99 12/21/99 12/21/99 12/21/99 12/21/99 12/21/99 12/21/99 |
| Ethyl methacrylate Iodomethane iso-Butanol | BQL BQL BQL | 10. 10. 200. | ug/kg ug/kg ug/kg | 12/21/99 12/21/99 12/21/99 |

Location Collected: Stripper Room Date Sample Collected: 12/02/1999

Sample Description: CC005 EAS Project Number: 3211-99 EAS Sample Number: 9913769

Date Sample Received: 12/02/1999

| | Parameter | Data | Quantitation Limit | Units | Analysis Date |
|---------|--|-------------------|-----------------------|-------------------------|----------------------------------|
| 2-Buta | ene chloride none (MEK) | 20.) BQL | 10. | ug/kg ug/kg | 12/21/99 12/21/99 |
| Methyl | acrylonitrile methacrylate hloroethane | EQL BQL | 10. 10. | ug/kg ug/kg | 12/21/99 12/21/99 |
| | nitrile | BQL BQL BQL | 10. 200. 10. | ug/kg ug/kg ug/kg | 12/21/99 12/21/99 12/21/99 |
| trans- | 1,2-Dichloroethene 1,3-Dichloropropene | BQL BQL | 10. | ug/kg ug/kg | 12/21/99 12/21/99 |
| | 1,4-Dichloro-2-butene nloroethylene | BQL BQL BQL | 10. 10. 10. | ug/kg ug/kg ug/kg | 12/21/99 12/21/99 12/21/99 |
| Total : | Kylenes proethylene | BQL BQL | 10. 10. | ug/kg ug/kg | 12/21/99 |
| Vinyl | orofluoromethane acetate chloride | BQL BQL | 10. 10. 10. | ug/kg ug/kg ug/kg | 12/21/99 12/21/99 12/21/99 |

BQL = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

- 1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.
- Clean Water Act, List of Approved Test Procedures, 40 CFR.
- 3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

Location Collected: Electro Cells Date Sample Collected: 12/02/1999

Sample Description: CC 002 EAS Project Number: 3211-99 EAS Sample Number: 9913770

| | | | | • | |
|---|------------|-----------------------|----------------|----------------------|--|
| Parameter | Data | Quantitation Limit | Units | Analysis Date | |
| Herbicide Extraction | | | | 12/17/99 | |
| Solid Pesticide/PCB Extraction | | | | 12/09/99 | |
| Cyanide, Total | BQL | 5.0 | mg/kg | 12/06/99 | |
| Sulfide, Total | 22 | 10. | mg/kg | 12/08/99 | |
| Metal's Digestion for Solid Samples | s - Method | SW-846-3050 | | 12/06/99 | |
| Silver, Total | BQL | 0.60 | mg/kg | 12/06/99 | |
| Arsenic, Total | BQL | 0.10 | mg/kg | 12/06/99 | |
| Barium, Total | BQL | 10. | mg/kg | 12/06/99 | |
| Beryllium, Total | BQL | 0.40 | mg/kg | 12/06/99 | |
| Cadmium, Total | 0.43 | 0.20 | mg/kg | 12/06/99 | |
| palt, Total | BQL | 2.0 | mg/kg | 12/06/99 | |
| Chromium, Total | 1.8 | 0.80 | mg/kg | 12/06/99 | |
| Copper, Total | 18.3 | 0.40 | mg/kg | 12/06/99 | |
| Mercury, Total | BQL | 10. | mg/kg | 12/08/99 | |
| Nickel, Total | BQL | 0.60 | mg/kg | 12/08/99 | |
| Lead, Total | 16. | 1.2 | mg/kg | 12/06/99 | |
| Antimony, Total | BQL | 8.0 | mg/kg | 12/06/99 | |
| Selenium, Total | BQL | 0.50 | mg/kg | 12/06/99 | |
| Tin, Total | (19) | 16. | mg/kg | 12/06/99 | |
| Thallium, Total Vanadium, Total | BOL | 8.0 | mg/kg | 12/06/99 | |
| Zinc, Total | BQL BQL | 20. 20. | | 12/06/99 | |
| | | | mg/kg | 12/06/99 | |
| Base/Neutral and Acidic Extractable Appendix IX-Mthd 8270 (GC/MS) Solid | | | | 12/17/99 | |
| 1,2,4,5-Tetrachlorobenzene | BQL | 330. | /1-a | 72/22/00 | |
| 1,2,4,5-lettachiolobenzene | BQL | 330. | ug/kg | 12/23/99 | |
| 1,4-Naphthoquinone | BQL | 330. | ug/kg | 12/23/99 | |
| 1-Naphthylamine | BQL | 330. | ug/kg | 12/23/99 12/23/99 | |
| 2-Acetylaminofluorene (2-AAF) | BQL | 330. | ug/kg | | |
| 2,3,4,6-Tetrachlorophenol | BQL | 330. | ug/kg ug/kg | 12/23/99 12/23/99 | |
| 2,4,5-Trichlorophenol | BQL | 330. | ug/kg ug/kg | 12/23/99 | |
| 2,4,6-Trichlorophenol | BQL | 330. | ug/kg | 12/23/99 | |
| 2,4-Dichlorophenol | BQL | 330. | ug/kg | 12/23/99 | |
| 2,4-Dimethylphenol | BQL | 330. | ug/kg | 12/23/99 | |
| 2,4-Dinitrophenol | BQL | 1600. | ug/kg | 12/23/99 | |
| 2,4-Dinitrotoluene | BQL | 330. | ug/kg | 12/23/99 | |
| 2,6-Dichlorophenol | BQL | 330. | ug/kg | 12/23/99 | |
| 2,6-Dinitrotoluene | BQL | 330. | ug/kg | 12/23/99 | |
| | _ | • | -3/ 1/3 | 12,23,77 | |

Location Collected: Electro Cells Date Sample Collected: 12/02/1999

Sample Description: CC 002 EAS Project Number: 3211-99 EAS Sample Number: 9913770

| | Parameter | Data | Quantitation Limit | Units | Analysis Date |
|--------|---|------------|-----------------------|----------------|------------------|
| ٠ | 2-Chloronaphthalene | BQL | 330. | ug/kg | 12/23/99 |
| | 2-Chlorophenol | BQL | 330. | ug/kg | 12/23/99 |
| | 2-Methylnaphthalene | BQL | 330. | ug/kg ug/kg | 12/23/99 |
| | p-(Dimethylamino)azobenzene | BQL | 330. | ug/kg | 12/23/99 |
| | 2-Naphthylamine | BQL | 330. | ug/kg | 12/23/99 |
| | 2-Picoline | BQL | 330. | ug/kg | 12/23/99 |
| | 3,3'-Dichlorobenzidine | BQL | 330. | ug/kg ug/kg | 12/23/99 |
| | 3,3'-Dimethylbenzidine | BQL | 330. | | |
| | 3-Methylcholanthrene | BQL | 330. | ug/kg | 12/23/99 |
| | 4,6-Dinitro-o-cresol | BQL | 1600. | ug/kg | 12/23/99 |
| • | 4-Aminobiphenyl | BQL | 330. | ug/kg | 12/23/99 |
| | 4-Bromophenyl phenyl ether | BQL BQL | 330. | ug/kg | 12/23/99 |
| | 4-Chlorophenyl phenyl ether | BQL | | ug/kg | 12/23/99 |
| | 4-Nitroquinoline 1-oxide | | 330. | ug/kg | 12/23/99 |
| | S-Nitro-o-toluidine | BQL | 330. | ug/kg | 12/23/99 |
| | Hexachlorophene | BQL | 330. | ug/kg | 12/23/99 |
| | - | BQL | 330. | ug/kg | 12/23/99 |
| | Hexachloropropene 7,12-Dimethylbenz[a]antracene | BQL | 330. | ug/kg | 12/23/99 |
| | | | 330. | ug/kg | 12/23/99 |
| | alpha, alpha-Dimethylphenethy | ~ | 330. | ug/kg | 12/23/99 |
| | Acenaphthene | BQL | .330. | ug/kg | 12/23/99 |
| | Acenaphthylene | BQL | 330. | ug/kg | 12/23/99 |
| | Acetophenone Aniline | BQL | 330. | ug/kg | 12/23/99 |
| | Anthracene | BQL | 330. | ug/kg | 12/23/99 |
| | Aramite | BQL | 330. | ug/kg | 12/23/99 |
| | • | BQL | 330. | ug/kg | 12/23/99 |
| | Bis (2-ethylhexyl) phthalate | 1400r. | 330. | ug/kg | 12/23/99 |
| | Bis (2-chloroethyl) ether | BQL | 330. | ug/kg | 12/23/99 |
| | Bis (2-chloroethoxy) methane Bis(2-chloro-1-methylethyl) e | BQL | 330. | ug/kg | 12/23/99 |
| | | BQL | 330. | ug/kg | 12/23/99 |
| | Benzyl alcohol | BQL | 330. | ug/kg | 12/23/99 |
| | Butyl benzylphthalate | 1600. | 330. | na\ka | 12/23/99 |
| | Chlambanilata | BQL | 330. | ug/kg | 12/23/99 |
| | Chlorobenzilate | BQL | 330. | ug/kg | 12/23/99 |
| | Diallate | BQL | 330. | ug/kg | 12/23/99 |
| | Dibenzo[a,h]anthracene | BQL | 330. | ug/kg | 12/23/99 |
| | Dibenzofuran | BQL | 330. | ug/kg | 12/23/99 |
| السيسا | Diethylphthalate | BQL | 330. | ug/kg | 12/23/99 |
| | Dimethoate | BQL | 330. | ug/kg | 12/23/99 |
| | Dimethyl phthalate | BQL | 330. | ug/kg | 12/23/99 |
| | Di-n-octylphthalate | 640. | 330. | ug/kg | 12/23/99 |

Location Collected: Electro Cells Date Sample Collected: 12/02/1999

Sample Description: CC 002 EAS Project Number: 3211-99 EAS Sample Number: 9913770

| | Parameter | Data | Quantitation Limit | Units | Analysis Date |
|----------|-------------------------------|-------------------|-----------------------|----------------|------------------|
| | | united Philippins | | | |
| | Di-n-butylphthalate | 370 | 330. | ug/kg | 12/23/99 |
| , | Diphenylamine | BQL | 330. | ug/kg | 12/23/99 |
| | Disulfoton | BQL | 330. | ug/kg | 12/23/99 |
| | Ethyl methanesulfonate | \mathtt{BQL} | 330. | ug/kg | 12/23/99 |
| | Famphur | BQL | 330. | ug/kg | 12/23/99 |
| | Fluoranthene | BQL | 330. | ug/kg | 12/23/99 |
| | Fluorene | BQL | 330. | ug/kg | 12/23/99 |
| | Hexachlorophene | BQL | 1600. | ug/kg | 12/23/99 |
| | Hexachlorobenzene | BQL | 330. | ug/kg | 12/23/99 |
| | Hexachlorobutadiene | BQL | 330. | ug/kg | 12/23/99 |
| | Hexachlorocyclopentadiene | BQL | 330. | ug/kg | 12/23/99 |
| | Hexachloroethane | BQL | 330. | ug/kg | 12/23/99 |
| | Indeno (1,2,3-cd) pyrene | BQL | 330. | ug/kg | 12/23/99 |
| | Isodrin | BQL | 330. | ug/kg | 12/23/99 |
| | Isophorone | BQL | 330. | ug/kg | 12/23/99 |
| | Isosafrole | BQL | 330. | ug/kg | 12/23/99 |
| | Kepone | BQL | 330. | ug/kg ug/kg | • • |
| | m-Cresol | BQL | 330. | | 12/23/99 |
| | m-Dinitrobenzene | BQL | 330. | ug/kg | 12/23/99 |
| | Methyl methanesulfonate | BQL | 330. | ug/kg | 12/23/99 |
| | Methapyrilene | BQL | 330. | ug/kg | 12/23/99 |
| | Methyl parathion | BQL | 330. | ug/kg | 12/23/99 |
| | m-Nitroaniline | BQL | 1600. | ug/kg | 12/23/99 |
| | Naphthalene | BQL | 330. | ug/kg | 12/23/99 |
| | N-Nitrosodi-n-butylamine | BQL BQL | 330. | ug/kg | 12/23/99 |
| | Nitrobenzene | | 330. | ug/kg | 12/23/99 |
| | N-Nitrosodimethylamine | BQL | | ug/kg | 12/23/99 |
| | | BQL | 330. | ug/kg | 12/23/99 |
| • | N-Nitrosodi-n-propylamine | BQL | 330. | ug/kg | 12/23/99 |
| | N-Nitrosodiphenylamine | BQL | 330. | ug/kg | 12/23/99 |
| | N-Nitrosomethylethylamine | BQL | 330. | ug/kg | 12/23/99 |
| | N-Nitrosodiethylamine | BQL | 330. | ùg/kg | 12/23/99 |
| | N-Nitrosomorpholine | BQL | 330. | ug/kg | 12/23/99 |
| | N-Nitrosopiperidine | BQL | 330. | ug/kg | 12/23/99 |
| | N-Nitrosopyrrolidine | BQL | 330. | ug/kg | 12/23/99 |
| | o-Cresol | BQL | 330. | ug/kg | 12/23/99 |
| | o-Nitroaniline | BQL | 1600. | ug/kg | 12/23/99 |
| * | o-Nitrophenol | BQL | 330. | ug/kg | 12/23/99 |
| | 000-Triethyl phosphorothicate | BQL | 330. | ug/kg | 12/23/99 |
| | o-Toluidine | BQL | 330. | ug/kg | 12/23/99 |
| | Parathion | BQL | 330. | ug/kg | 12/23/99 |

Location Collected: Electro Cells Date Sample Collected: 12/02/1999

Sample Description: CC 002 EAS Project Number: 3211-99 EAS Sample Number: 9913770

| | • | | • | | |
|------------------------------|---------------------|-----------------------|----------------|----------------------|--|
| Parameter | Data | Quantitation Limit | Units | Analysis Date | |
| p-Chloroaniline | BQL | 330. | | 12/22/00 | |
| p-Chloro-m-cresol | BQL | 330. | ug/kg ug/kg | 12/23/99 12/23/99 | |
| p-Cresol | BQL | 330. | ug/kg ug/kg | 12/23/99 | |
| Pentachlorobenzene | BQL | 330. | ug/kg | 12/23/99 | |
| Pentachloronitrobenzene | BQL | 1600. | ug/kg | 12/23/99 | |
| Pentachlorophenol | BQL | 1600. | ug/kg | 12/23/99 | |
| Phenacetin | BQL | 330. | ug/kg | 12/23/99 | |
| Phenanthrene | BQL | 330. | ug/kg | 12/23/99 | |
| Phenol | BQL | 330. | ug/kg ug/kg | 12/23/99 | |
| Phorate | BQL | 330. | ug/kg ug/kg | 12/23/99 | |
| p-Nitroaniline | BQL | 1600. | | | |
| p-Nitrophenol | BQL | 1600. | ug/kg ug/kg | 12/23/99 | |
| p-Phenylenediamine | BQL | 330. | | 12/23/99 | |
| Pronamide | BQL | 330. | ug/kg | 12/23/99 | |
| Pyrene | BQL | 330. | ug/kg | 12/23/99 | |
| Pyridine | | | ug/kg | 12/23/99 | |
| Safrole | BQL BQL | 330. 330. | ug/kg | 12/23/99 | |
| Sulfotepp | | 330. | ug/kg | 12/23/99 | |
| sym-Trinitrobenzene | BQL | 330. | ug/kg | 12/23/99 | |
| Thionazin | BQL BQL | 330. 330. | ug/kg | 12/23/99 | |
| Benzo (a) anthracene | BQL | 330. | ug/kg | 12/23/99 | |
| Benzo (a) pyrene | BQL | 330. | ug/kg | 12/23/99 12/23/99 | |
| Benzo (b) fluoranthene | BQL | 330. | ug/kg | | |
| Benzo (ghi) perylene | BQL | 330. | ug/kg | 12/23/99 | |
| Benzo (k) fluoranthene | BQL | 330. | ug/kg | 12/23/99 | |
| | | 330. | ug/kg | 12/23/99 | |
| Appendix IX Herbicides - Met | | | •- | | |
| 2,4,5-T | BQL | 10. | ug/kg | 12/21/99 | |
| 2,4,5-TP (Silvex) | BQL | 10. | ug/kg | 12/21/99 | |
| 2,4-D | BQL | 100. | ug/kg | 12/21/99 | |
| Dinoseb | BQL (| 10, | ug/kg | 12/21/99 | |
| Appendix IX Pesticide and PC | B's - Method SW-846 | 5-8080 | | | |
| 4,4'-DDD | BQL | 200. | ug/kg | 12/23/99 | |
| 4,4'-DDE | BQL | 200. | ug/kg | 12/23/99 | |
| 4,4'-DDT | BQL | 200. | ug/kg | 12/23/99 | |
| Aldrin Aldrin | BQL | 200. | ug/kg | 12/23/99 | |
| Chlordane | BQL | 200. | ug/kg | 12/23/99 | |
| Dieldrin | BQL | 200. | ug/kg | 12/23/99 | |
| Endosulfan sulfate | BQL | 200. | ug/kg | 12/23/99 | |

Location Collected: Electro Cells Date Sample Collected: 12/02/1999

Sample Description: CC 002 EAS Project Number: 3211-99 EAS Sample Number: 9913770

| | Parameter | Data | Quantitation Limit | Units | Analysis Date |
|--------|--------------------|----------------|-----------------------|-------|------------------|
| | m_ a 1 a.ha. | | 200 | | |
| | Endrin aldehyde | BQL | 200 | ug/kg | 12/23/99 |
| | Endrin | BQL | 200. | ug/kg | 12/23/99 |
| | Heptachlor | BQL | 200. | ug/kg | 12/23/99 |
| | Heptachlor epoxide | BQL | 200. | ug/kg | 12/23/99 |
| | Methoxychlor | BQL | 200. | ug/kg | 12/23/99 |
| | Aroclor 1016 | BQL | 200. | ug/kg | 12/23/99 |
| | Aroclor 1221 | BQL | 200. | ug/kg | 12/23/99 |
| | Aroclor 1232 | BQL | 200. | ug/kg | 12/23/99 |
| | Aroclor 1242 | BQL | 200. | ug/kg | 12/23/99 |
| | Aroclor 1248 | BQL | 200. | ug/kg | 12/23/99 |
| | Aroclor 1254 | BQL | 200. | ug/kg | 12/23/99 |
| -41 10 | Aroclor 1260 | BQL | 200. | ug/kg | 12/23/99 |
| | Toxaphene | \mathtt{BQL} | 200. | ug/kg | 12/23/99 |
| | a-BHC | BQL | 200. | ug/kg | 12/23/99 |
| | Endosulfan I | \mathtt{BQL} | 200. | ug/kg | 12/23/99 |
| | b-BHC | BQL | 200. | ug/kg | 12/23/99 |
| | Endosulfan II | BQL | 200. | ug/kg | 12/23/99 |
| | d-BHC | BQL | 200. | ug/kg | 12/23/99 |
| | g-BHC (Lindane) | BOL | 200. | ug/kg | 12/23/99 |

Location Collected: Electro Cells Date Sample Collected: 12/02/1999

Sample Description: CC 002 EAS Project Number: 3211-99 EAS Sample Number: 9913770

Date Sample. Received: 12/02/1999

Quantitation Analysis
Parameter Data Limit Units Date

BOL = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

- 1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.
- Clean Water Act, List of Approved Test Procedures, 40 CFR.
- 3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

Location Collected: < 90 Day

Date Sample Collected: 12/02/1999

Sample Description: CC 004 EAS Project Number: 3211-99 EAS Sample Number: 9913771

| Parameter | Data | Quantitation Limit | Units | Analysis Date | |
|--|--|---|---|--|--|
| Herbicide Extraction Solid Pesticide/PCB Extraction Cyanide, Total Sulfide, Total | BQL 8.1) | 5.0 5.0 | mg/kg mg/kg | 12/17/99 12/09/99 12/06/99 12/15/99 | |
| Metal's Digestion for Solid Samples Silver, Total Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Dalt, Total | - Method BQL BQL BQL BQL BQL CONTROL C | SW-846-3050 0.60 0.10 10. 0.40 0.20 2.0 0.80 0.40 10. 0.60 1.2 8.0 0.50 16. 8.0 20. | mg/kg | 12/06/99 12/06/99 12/06/99 12/06/99 12/06/99 12/06/99 12/06/99 12/06/99 12/06/99 12/06/99 12/06/99 12/06/99 12/06/99 12/06/99 12/06/99 12/06/99 12/06/99 | |
| Base/Neutral and Acidic Extractable Appendix IX-Mthd 8270 (GC/MS) Solid 1,2,4,5-Tetrachlorobenzene 1,2,4-Trichlorobenzene 1,4-Naphthoquinone 1-Naphthylamine 2-Acetylaminofluorene (2-AAF) 2,3,4,6-Tetrachlorophenol 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4-Dichlorophenol 2,4-Dimethylphenol 2,4-Dinitrotoluene 2,6-Dichlorophenol 2,6-Dinitrotoluene | | 330. 330. 330. 330. 330. 330. 330. 330. | ug/kg | 12/17/99 12/23/99 12/23/99 12/23/99 12/23/99 12/23/99 12/23/99 12/23/99 12/23/99 12/23/99 12/23/99 12/23/99 12/23/99 12/23/99 12/23/99 12/23/99 12/23/99 | |

Location Collected: < 90 Day

Date Sample Collected: 12/02/1999

Sample Description: CC 004
EAS Project Number: 3211-99
EAS Sample Number: 9913771

| | Parameter | Data | Quantitation Limit | Units | Analysis Date | |
|-----|-------------------------------|--------|-----------------------|--------|------------------|--|
|) | | | | | | |
| | 2-Chloronaphthalene | BQL | 330. | ··- /) | 30/03/00 | |
| | 2-Chlorophenol | BQL | 330. | ug/kg | 12/23/99 | |
| | 2-Methylnaphthalene | | | ug/kg | 12/23/99 | |
| | | BQL | 330. | ug/kg | 12/23/99 | |
| | p-(Dimethylamino)azobenzene | BQL | 330. | ug/kg | 12/23/99 | |
| | 2-Naphthylamine | BQL | 330. | ug/kg | 12/23/99 | |
| | 2-Picoline | BQL | 330. | ug/kg | 12/23/99 | |
| | 3,3'-Dichlorobenzidine | BQL | 330. | ug/kg | 12/23/99 | |
| | 3,3'-Dimethylbenzidine | BQL | 330. | ug/kg | 12/23/99 | |
| | 3-Methylcholanthrene | BQL | 330. | ug/kg | 12/23/99 | |
| | 4,6-Dinitro-o-cresol | BQL | 1600. | ug/kg | 12/23/99 | |
| | 4-Aminobiphenyl | BQL | 330. | ug/kg | 12/23/99 | |
| Wh | , 4-Bromophenyl phenyl ether | BQL | 330. | ug/kg | 12/23/99 | |
| | 4-Chlorophenyl phenyl ether | BQL | 330. | ug/kg | 12/23/99 | |
| | 4-Nitroquinoline 1-oxide | BQL | 330. | ug/kg | 12/23/99 | |
| | 5-Nitro-o-toluidine | BQL | 330. | ug/kg | 12/23/99 | |
| | Hexachlorophene | BQL | 330. | ug/kg | 12/23/99 | |
| | Hexachloropropene | BQL | 330. | ug/kg | 12/23/99 | |
| | 7,12-Dimethylbenz[a]antracene | BQL | 330. | ug/kg | 12/23/99 | |
| | alpha, alpha-Dimethylphenethy | BQL | 330. | ug/kg | 12/23/99 | |
| | Acenaphthene | BQL | 330. | ug/kg | 12/23/99 | |
| | Acenaphthylene | BQL | 330. | ug/kg | 12/23/99 | |
| | Acetophenone | BQL | 330. | ug/kg | 12/23/99 | |
| | Aniline | BQL | 330. | ug/kg | 12/23/99 | |
| | Anthracene | BQL | 330. | ug/kg | 12/23/99 | |
| | Aramite | BQL | 330. | ug/kg | 12/23/99 | |
| | Bis (2-ethylhexyl) phthalate | 14.8.4 | J 330. | | | |
| | Bis (2-chloroethyl) ether | BQL | 330. | ug/kg | 12/23/99 | |
| | Bis (2-chloroethoxy) methane | BQL | 330. | ug/kg | 12/23/99 | |
| | Bis(2-chloro-1-methylethyl) e | | | ug/kg | 12/23/99 | |
| | Benzyl alcohol | BQL | 330. | ug/kg | 12/23/99 | |
| | | BQL | 330. | ug/kg | 12/23/99 | |
| | Butyl benzylphthalate | BQL | 330. | ug/kg | 12/23/99 | |
| | Chrysene | BQL | 330. | ug/kg | 12/23/99 | |
| | Chlorobenzilate | BQL | 330. | ug/kg | 12/23/99 | |
| | Diallate | BOL | 330. | ug/kg | 12/23/99 | |
| | Dibenzo [a, h] anthracene | BQL | 330. | ug/kg | 12/23/99 | |
| | Dibenzofuran | BQL | 330. | ug/kg | 12/23/99 | |
| • 4 | Diethylphthalate | BQL | 330. | ug/kg. | 12/23/99 | |
| | Dimethoate | BQL | 330. | ug/kg | 12/23/99 | |
| | Dimethyl phthalate | BQL | 330. | ug/kg | 12/23/99 | |
| | Di-n-octylphthalate | BQL | 330. | ug/kg | 12/23/99 | |
| | | | | | | |

Location Collected: < 90 Day

Date Sample Collected: 12/02/1999

Sample Description: CC 004 EAS Project Number: 3211-99 EAS Sample Number: 9913771

| | Parameter | Data | Quantitation Limit | Units | Analysis Date |
|-----|----------------------------|------|-----------------------|-------|------------------|
| Di- | -n-butylphthalate | 40.1 | J 330. | ug/kg | 12/23/99 |
| Dip | phenylamine | BQL | 330. | ug/kg | 12/23/99 |
| Dis | sulfoton | BQL | 330. | ug/kg | 12/23/99 |
| Etl | nyl methanesulfonate | BQL | 330. | ug/kg | 12/23/99 |
| Far | nphur | BQL | 330. | ug/kg | 12/23/99 |
| Flu | ioranthene | BQL | 330. | ug/kg | 12/23/99 |
| Flu | iorene | BQL | 330. | ug/kg | 12/23/99 |
| Hex | cachlorophene | BQL | 1600. | ug/kg | 12/23/99 |
| | kachlorobenzene | BQL | 330. | ug/kg | 12/23/99 |
| Нез | kachlorobutadiene | BQL | 330. | ug/kg | 12/23/99 |
| Hex | achlorocyclopentadiene | BQL | 330. | ug/kg | 12/23/99 |
| | cachloroethane. | BQL | 330. | ug/kg | 12/23/99 |
| Inc | deno (1,2,3-cd) pyrene | BQL | 330. | ug/kg | 12/23/99 |
| | odrin | BQL | 330. | ug/kg | 12/23/99 |
| Isc | phorone | BQL | 330. | ug/kg | 12/23/99 |
| | safrole | BQL | 330. | ug/kg | 12/23/99 |
| Ker | oone | BQL | 330. | ug/kg | 12/23/99 |
| _ | Cresol | BQL | 330. | ug/kg | 12/23/99 |
| | Dinitrobenzene | BQL | 330. | ug/kg | 12/23/99 |
| | hyl methanesulfonate | BQL | 330. | ug/kg | 12/23/99 |
| | :hapyrilene | BQL | 330. | ug/kg | 12/23/99 |
| | hyl parathion | BQL | 330. | ug/kg | 12/23/99 |
| m-N | litroaniline | BQL | 1600. | ug/kg | 12/23/99 |
| Nap | hthalene | BQL | 330. | ug/kg | 12/23/99 |
| N-N | Mitrosodi-n-butylamine | BQL | 330. | ug/kg | 12/23/99 |
| Nit | robenzene | BQL | 330. | ug/kg | 12/23/99 |
| N-N | litrosodimethylamine | BQL | 330. | ug/kg | 12/23/99 |
| N-N | itrosodi-n-propylamine | BQL | 330. | ug/kg | 12/23/99 |
| N-N | itrosodiphenylamine | BQL | 330. | ug/kg | 12/23/99 |
| N-N | itrosomethylethylamine | BQL | 330. | ug/kg | 12/23/99 |
| | itrosodiethylamine | BQL | 330. | ug/kg | 12/23/99 |
| | itrosomorpholine | BQL | 330. | ug/kg | 12/23/99 |
| | itrosopiperidine | BQL | 330. | ug/kg | 12/23/99 |
| N-N | itrosopyrrolidine | BQL | 330. | ug/kg | 12/23/99 |
| | resol | BQL | 330. | ug/kg | 12/23/99 |
| | itroaniline | BQL | 1600. | ug/kg | 12/23/99 |
| | itrophenol | BQL | 330. | ug/kg | 12/23/99 |
| | -Triethyl phosphorothicate | BQL | 330. | ug/kg | 12/23/99 |
| | oluidine | BQL | 330. | ug/kg | 12/23/99 |
| Par | athion | BQL | 330. | ug/kg | 12/23/99 |

Location Collected: < 90 Day
Date Sample Collected: 12/02/1999
Sample Description: CC 004
EAS Project Number: 3211-99 EAS Sample Number: 9913771

| Parameter | Data | Quantitation Limit | Units | Analysis Date | |
|---|--|---|---|--|--|
| p-Chloroaniline p-Chloro-m-cresol p-Cresol Pentachlorobenzene Pentachloronitrobenzene Pentachlorophenol Phenacetin Phenathrene Phenol Phorate p-Nitroaniline p-Nitrophenol p-Phenylenediamine Pronamide Pyrene Pyridine Safrole Sulfotepp sym-Trinitrobenzene Thionazin Benzo (a) anthracene Benzo (b) fluoranthene | BQL BQL BQL BQL BQL BQL BQL BQL BQL BQL | 330. 330. 330. 1600. 1600. 330. 330. 330. 330. 330. 330. 330. | ug/kg | 12/23/99 | |
| Benzo (ghi) perylene Benzo (k) fluoranthene | BQL BQL | 330. 330. | ug/kg ug/kg ug/kg | 12/23/99 12/23/99 12/23/99 | |
| Appendix IX Herbicides - Method S 2,4,5-T 2,4,5-TP (Silvex) 2,4-D Dinoseb | W-846-8150 BQL BQL BQL BQL | 10. 10. 100. 10. | ug/kg ug/kg ug/kg ug/kg | 12/21/99 12/21/99 12/21/99 12/21/99 | |
| Appendix IX Pesticide and PCB's - 4,4'-DDD 4,4'-DDE 4,4'-DDT Aldrin Chlordane Dieldrin Endosulfan sulfate | Method SW-84 BQL BQL BQL BQL BQL BQL BQL BQL BQL | 200. 200. 200. 200. 200. 200. 200. 200. | ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg | 12/23/99 12/23/99 12/23/99 12/23/99 12/23/99 12/23/99 12/23/99 | |

Location Collected: < 90 Day

Date Sample Collected: 12/02/1999 Sample Description: CC 004 EAS Project Number: 3211-99 EAS Sample Number: 9913771

| | Parameter | Data | Quantitation Limit | Units | Analysis Date | |
|----------|--------------------|-------|-----------------------|----------------|------------------|--|
| | | | | | 11 | |
| | Endrin aldehyde | BQL | 200. | ug/kg | 12/23/99 | |
| | Endrin | BQL | 200. | ug/kg | 12/23/99 | |
| | Heptachlor | BQL | 200. | ug/kg | 12/23/99 | |
| | Heptachlor epoxide | BQL | 200. | ug/kg | 12/23/99 | |
| | Methoxychlor | BQL | 200. | ug/kg | 12/23/99 | |
| | Aroclor 1016 | BQL | 200. | ug/kg | 12/23/99 | |
| | Aroclor 1221 | BQL | 200. | ug/kg | 12/23/99 | |
| | Aroclor 1232 | BQL | 200. | ug/kg | 12/23/99 | |
| | Aroclor 1242 | BQL | 200. | ug/kg | 12/23/99 | |
| | Aroclor 1248 | BQL | 200. | ug/kg | 12/23/99 | |
| | Aroclor 1254 | BQL | 200. | ug/kg | 12/23/99 | |
| . | Aroclor 1260 | BQL | | ug/kg | 12/23/99 | |
| | Toxaphene | BQL | 200. | ug/kg | 12/23/99 | |
| | a-BHC | . BQL | 200. | ug/kg | 12/23/99 | |
| | Endosulfan I | BQL | 200. | ug/kg | 12/23/99 | |
| • | b-BHC | BQL | 200. | ug/kg | 12/23/99 | |
| | Endosulfan II | BQL | 200. | ug/kg | 12/23/99 | |
| | d-BHC | BQL | 200. | ug/kg | 12/23/99 | |
| | g-BHC (Lindane) | BQL | 200. | ug/kg ug/ka | 12/23/99 | |

Location Collected: < 90 Day

Date Sample Collected: 12/02/1999

Sample Description: CC 004 EAS Project Number: 3211-99 EAS Sample Number: 9913771

Date Sample Received: 12/02/1999

Quantitation Analysis
Parameter Data Limit Units Date

BQL = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

- 1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.
- Clean Water Act, List of Approved Test Procedures, 40 CFR.
- 3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

Location Collected: Stripper Room Date Sample Collected: 12/02/1999

Sample Description: CC 006 EAS Project Number: 3211-99 EAS Sample Number: 9913772

| | • | | , | |
|---|--------------|-----------------------|----------------|----------------------|
| Parameter | Data | Quantitation Limit | Units | Analysis Date |
| | | | | |
| Herbicide Extraction | , | | • | 12/17/99 |
| Solid Pesticide/PCB Extraction | : | 5 0 | (1 | 12/09/99 |
| Cyanide, Total Sulfide, Total | 55. | 5.0 | mg/kg | 12/06/99 |
| Suilide, local | 38.4 | . 10. | mg/kg | 12/15/99 |
| Metal's Digestion for Solid Samples | - Method | SW-846-3050 | | 12/06/99 |
| Silver, Total | BQL | 0.60 | mg/kg | 12/06/99 |
| Arsenic, Total | :0::11 | 0.10 | mg/kg | 12/06/99 |
| Barium, Total | BQL . | 10. | mg/kg | 12/06/99 |
| Beryllium, Total | BQL | 0.40 | mg/kg | 12/06/99 |
| Cadmium, Total | BQL | 0.20 | mg/kg | 12/06/99 |
| balt, Total | BQL | 2.0 | mg/kg | 12/06/99 |
| Chromium, Total | 2.1, | 0.80 | mg/kg | 12/06/99 |
| Copper, Total | 6.0 | 0.40 | mg/kg | 12/06/99 |
| Mercury, Total | BQL | 10. | mg/kg | 12/08/99 |
| Nickel, Total | 2.0 | 0.60 | mg/kg | 12/06/99 |
| Lead, Total | 2 :3, | 1.2 | mg/kg | 12/06/99 |
| Antimony, Total | BQL' | 8.0 | mg/kg | 12/06/99 |
| Selenium, Total | BQL | 0.50 | mg/kg | 12/06/99 |
| Tin, Total | BQL | 16. | mg/kg | 12/06/99 |
| Thallium, Total | BQL | 8.0 | mg/kg | 12/06/99 |
| Vanadium, Total | BQL | 20. | mg/kg | 12/06/99 |
| Zinc, Total | 226 | 20. | mg/kg | 12/06/99 |
| Base/Neutral and Acidic Extractable Appendix IX-Mthd 8270 (GC/MS) Solid | | | | 12/17/99 |
| 1,2,4,5-Tetrachlorobenzene | BQL | 330. | ug/kg | 12/23/99 |
| 1,2,4-Trichlorobenzene | BQL | 330. | ug/kg ug/kg | 12/23/99 |
| 1,4-Naphthoquinone | BQL | 330. | ug/kg | 12/23/99 |
| 1-Naphthylamine | BQL | 330. | ug/kg ug/kg | 12/23/99 |
| 2-Acetylaminofluorene (2-AAF) | BQL | 330. | | |
| 2,3,4,6-Tetrachlorophenol | BQL | 330. | ug/kg | 12/23/99 |
| 2,4,5-Trichlorophenol | BQL | 330. | ug/kg ug/kg | 12/23/99 |
| 2,4,6-Trichlorophenol | BQL | 330. | | 12/23/99 |
| 2,4-Dichlorophenol | BQL | 330. | ug/kg | 12/23/99 12/23/99 |
| 2,4-Dimethylphenol | BQL | 330. | ug/kg | * |
| 2,4-Dinitrophenol | BQL | 1600. | ug/kg ug/kg | 12/23/99 12/23/99 |
| 2,4-Dinitrotoluene | BQL | 330. | | 12/23/99 |
| 2,6-Dichlorophenol | BQL | , 330. | ug/kg | 12/23/99 |
| 2,6-Dinitrotoluene | BQL | 330. | ug/kg | 12/23/99 |
| _, • | - 5 | | ug/kg | 14/43/33 |

Location Collected: Stripper Room

Date Sample Collected: 12/02/1999
Sample Description: CC 006
EAS Project Number: 3211-99
EAS Sample Number: 9913772

| | Parameter | Data | | Quantitation Limit | Units | Analysis Date |
|------------|-------------------------------|------------------|---|-----------------------|-------|------------------|
| | 2-Chloronaphthalene | BQL | * | 330. | ug/kg | 12/23/99 |
| | 2-Chlorophenol | BQL | | 330. | ug/kg | 12/23/99 |
| | 2-Methylnaphthalene | BQL | | 330. | ug/kg | 12/23/99 |
| | p-(Dimethylamino) azobenzene | BQL | | 330. | ug/kg | 12/23/99 |
| | 2-Naphthylamine | BQL | | 330. | ug/kg | 12/23/99 |
| | ·2-Picoline | BQL | | 330. | ug/kg | 12/23/99 |
| | 3,3'-Dichlorobenzidine | BQL | | 330. | ug/kg | 12/23/99 |
| | 3,3'-Dimethylbenzidine | BQL | | 330. | ug/kg | 12/23/99 |
| | 3-Methylcholanthrene | BQL | | 330. | ug/kg | 12/23/99 |
| | 4,6-Dinitro-o-cresol | BQL | | 1600. | ug/kg | 12/23/99 |
| | 4-Aminobiphenyl | BQL | | 330. | ug/kg | 12/23/99 |
| sali). sal | 4-Bromophenyl phenyl ether | BQL | | 330. | ug/kg | 12/23/99 |
| | 4-Chlorophenyl phenyl ether | BQL | | 330. | ug/kg | 12/23/99 |
| | 4-Nitroquinoline 1-oxide | BQL | | 330. | ug/kg | 12/23/99 |
| | 5-Nitro-o-toluidine | BQL | | 330. | ug/kg | 12/23/99 |
| | Hexachlorophene | BQL | | 330. | ug/kg | 12/23/99 |
| | Hexachloropropene | BQL | | 330. | ug/kg | 12/23/99 |
| | 7,12-Dimethylbenz[a]antracene | BQL | | 330. | ug/kg | 12/23/99 |
| | alpha, alpha-Dimethylphenethy | BQL | | 330. | ug/kg | 12/23/99 |
| | Acenaphthene | BQL | | 330. | ug/kg | 12/23/99 |
| | Acenaphthylene | BQL | | 330. | ug/kg | 12/23/99 |
| | Acetophenone | BQL | | 330. | ug/kg | 12/23/99 |
| | Aniline | BQL | | 330. | ug/kg | 12/23/99 |
| | Anthracene | BQL | | 330. | ug/kg | 12/23/99 |
| | Aramite | BQL | | 330. | ug/kg | 12/23/99 |
| | Bis (2-ethylhexyl) phthalate | *36 ₋ | Ċ | J 330. | ug/kg | 12/23/99 |
| | Bis (2-chloroethyl) ether | BQL. | | 33.0. | ug/kg | 12/23/99 |
| | Bis (2-chloroethoxy) methane | BQL | | 330. | ug/kg | 12/23/99 |
| | Bis(2-chloro-1-methylethyl) e | BQL | | 330. | ug/kg | 12/23/99 |
| | Benzyl alcohol | 9 7:) | j | ••• | ug/kg | 12/23/99 |
| | Butyl benzylphthalate | BQL | | 330. | ug/kg | 12/23/99 |
| | Chrysene | BQL | | 330. | ug/kg | 12/23/99 |
| | Chlorobenzilate | BQL | | 330. | ug/kg | 12/23/99 |
| | Diallate | BQL | | 330. | ug/kg | 12/23/99 |
| | Dibenzo [a, h] anthracene | BQL | | 330 | ug/kg | 12/23/99 |
| | Dibenzofuran | BQL | | 330. | ug/kg | 12/23/99 |
| | Diethylphthalate | BQL | | 330. | ug/kg | 12/23/99 |
| | Dimethoate | BQL | | 330. | ug/kg | 12/23/99 |
| | Dimethyl phthalate | BQL | • | 330. | ug/kg | 12/23/99 |
| | Di-n-octylphthalate | BQL | | 330. | ug/kg | 12/23/99 |

Location Collected: Stripper Room Date Sample Collected: 12/02/1999 Sample Description: CC 006

Sample Description: CC 006 EAS Project Number: 3211-99 EAS Sample Number: 9913772

| | | , | Quantitation | | Analysis |
|---|-------------------------------|------|--------------|-------|----------|
| | Parameter | Data | Limit | Units | Date |
| | Di-n-butylphthalate | BQL | 330. | ug/kg | 12/23/99 |
| | Diphenylamine | BQL | 330. | ug/kg | 12/23/99 |
| | Disulfoton | BQL | 330. | ug/kg | 12/23/99 |
| | Ethyl methanesulfonate | BQL | 330. | ug/kg | 12/23/99 |
| | Famphur | BQL | 330. | ug/kg | 12/23/99 |
| | Fluoranthene | BQL | 330. | ug/kg | 12/23/99 |
| | Fluorene | BQL | 330. | ug/kg | 12/23/99 |
| | Hexachlorophene | BQL | 1600. | ug/kg | 12/23/99 |
| | Hexachlorobenzene | BQL | 330. | ug/kg | 12/23/99 |
| | Hexachlorobutadiene | BQL | 330. | ug/kg | 12/23/99 |
| | Hexachlorocyclopentadiene | BQL | 330. | ug/kg | 12/23/99 |
| | Hexachloroethane | BQL | 330. | ug/kg | 12/23/99 |
| | Indeno (1,2,3-cd) pyrene | BQL | 330. | ug/kg | 12/23/99 |
| | Isodrin | BQL. | 330. | ug/kg | 12/23/99 |
| | Isophorone | BQL | 330. | ug/kg | 12/23/99 |
| | Isosafrole | BQL | 330. | ug/kg | 12/23/99 |
| | Kepone | BQL | 330. | ug/kg | 12/23/99 |
| - | m-Cresol | BQL | 330. | ug/kg | 12/23/99 |
| | m-Dinitrobenzene | BQL | 330. | ug/kg | 12/23/99 |
| | Methyl methanesulfonate | BQL | 330. | ug/kg | 12/23/99 |
| | Methapyrilene | BQL | 330. | ug/kg | 12/23/99 |
| | Methyl parathion | BQL | 330. | ug/kg | 12/23/99 |
| • | m-Nitroaniline | BQL | 1600. | ug/kg | 12/23/99 |
| | Naphthalene | BQL | 330. | ug/kg | 12/23/99 |
| | N-Nitrosodi-n-butylamine | BQL | 330. | ug/kg | 12/23/99 |
| | Nitrobenzene | BQL | 330. | ug/kg | 12/23/99 |
| | N-Nitrosodimethylamine . | BQL | 330. | ug/kg | 12/23/99 |
| | N-Nitrosodi-n-propylamine | BQL | 330. | ug/kg | 12/23/99 |
| | N-Nitrosodiphenylamine | BQL | 330. | ug/kg | 12/23/99 |
| | N-Nitrosomethylethylamine | BQL | 330. | ug/kg | 12/23/99 |
| | N-Nitrosodiethylamine | BQL | 330. | ug/kg | 12/23/99 |
| | N-Nitrosomorpholine | BQL | 330. | ug/kg | 12/23/99 |
| | N-Nitrosopiperidine | BQL | 330. | ug/kg | 12/23/99 |
| | N-Nitrosopyrrolidine | BQL | 330. | ug/kg | 12/23/99 |
| | o-Cresol | BQL | 330. | ug/kg | 12/23/99 |
| | o-Nitroaniline | BQL | 1600. | ug/kg | 12/23/99 |
| | o-Nitrophenol | BQL | 330. | ug/kg | 12/23/99 |
| | 000-Triethyl phosphorothicate | BQL | 330. | ug/kg | 12/23/99 |
| | o-Toluidine | BQL | 330. | ug/kg | 12/23/99 |
| | Parathion | BQL | 330. | ug/kg | 12/23/99 |

Location Collected: Stripper Room

Date Sample Collected: 12/02/1999 Sample Description: CC 006 EAS Project Number: 3211-99 EAS Sample Number: 9913772

| Parameter | Data | Quantitation Limit | Units | Analysis Date |
|---------------------------------|-------------|-----------------------|-------|------------------|
| p-Chloroaniline | BQL | 330. | ug/kg | 12/23/99 |
| p-Chloro-m-cresol | BQL | 330. | ug/kg | 12/23/99 |
| p-Cresol | BQL | 330. | ug/kg | 12/23/99 |
| Pentachlorobenzene | BQL | 330. | ug/kg | 12/23/99 |
| Pentachloronitrobenzene | BQL | 1600. | ug/kg | 12/23/99 |
| Pentachlorophenol | BQL | 1600. | ug/kg | 12/23/99 |
| Phenacetin | BQL | 330. | ug/kg | 12/23/99 |
| Phenanthrene | BQL | 330. | ug/kg | 12/23/99 |
| Phenol | BQL | 330. | ug/kg | 12/23/99 |
| Phorate | BQL | 330. | ug/kg | 12/23/99 |
| p-Nitroaniline | BQL | 1600. | ug/kg | 12/23/99 |
| p-Nitrophenol | BQL | 1600. | ug/kg | 12/23/99 |
| p-Phenylenediamine | BQL | 330. | ug/kg | 12/23/99 |
| Pronamide | BQL | 330. | ug/kg | 12/23/99 |
| Pyrene | BQL | 330. | ug/kg | 12/23/99 |
| Pyridine | BQL | 330. | ug/kg | 12/23/99 |
| Safrole | BQL | 330. | ug/kg | 12/23/99 |
| Sulfotepp | BQL | 330. | ug/kg | 12/23/99 |
| sym-Trinitrobenzene | BQL | 330. | ug/kg | 12/23/99 |
| Thionazin | BQL | 330. | ug/kg | 12/23/99 |
| Benzo (a) anthracene | BQL | 330. | ug/kg | 12/23/99 |
| Benzo (a) pyrene | BQL | 330. | ug/kg | 12/23/99 |
| Benzo (b) fluoranthene | BQL | 330. | ug/kg | 12/23/99 |
| Benzo (ghi) perylene | BQL | 330. | ug/kg | 12/23/99 |
| Benzo (k) fluoranthene | BQL | 330. | ug/kg | 12/23/99 |
| Appendix IX Herbicides - Method | SW-846-8150 | | | |
| 2,4,5-T | BQL | 10. | ug/kġ | 12/21/99 |
| 2,4,5-TP (Silvex) | BQL | 10. | ug/kg | 12/21/99 |
| 2,4-D | BQL | 100. | ug/kg | 12/21/99 |
| Dinoseb | BQL | 10. | ug/kg | 12/21/99 |
| Appendix IX Pesticide and PCB's | | 6-8080 | | |
| 4,4'-DDD | BQL | 200. | ug/kg | 12/23/99 |
| 4,4'-DDE | BQL | 200. | ug/kg | 12/23/99 |
| 4,4'-DDT | BQL | 200. | ug/kg | 12/23/99 |
| Aldrin | BQL | 200. | ug/kg | 12/23/99 |
| Chlordane | BQL | 200. | ug/kg | 12/23/99 |
| Dieldrin | BQL | 200. | ug/kg | 12/23/99 |
| Endosulfan sulfate | BQL | 200. | ug/kg | 12/23/99 |
| | | | | · |

Location Collected: Stripper Room

Date Sample Collected: 12/02/1999 Sample Description: CC 006 EAS Project Number: 3211-99 EAS Sample Number: 9913772

| Parameter | Data | Quantitation Limit | Units | Analysis Date |
|--------------------|------|-----------------------|----------------|------------------|
| Endnin aldohuda | POT. | 200 | 42 | |
| Endrin aldehyde | BQL | 200. | ug/kg | 12/23/99 |
| Endrin | BQL | 200. | ug/kg | 12/23/99 |
| Heptachlor | BQL | 200. | ug/kg | 12/23/99 |
| Heptachlor epoxide | BQL | 200. | ug/kg | 12/23/99 |
| Methoxychlor | BQL | 200. | ug/kg | 12/23/99 |
| Aroclor 1016 | BQL | 200. | ug/kg | 12/23/99 |
| Aroclor 1221 | BQL | 200. | ug/kg | 12/23/99 |
| Aroclor 1232 | BQL | 200. | ug/kg | 12/23/99 |
| Aroclor 1242 | BQL | 200. | ug/kg | 12/23/99 |
| Aroclor 1248 | BQL | 200. | ug/kg | 12/23/99 |
| Aroclor 1254 | BQL | 200. | ug/kg | 12/23/99 |
| Aroclor 1260 | BQL | 200. | ug/kg | 12/23/99 |
| Toxaphene | BQL | 200. | ug/kg | 12/23/99 |
| a-BHC | BQL | 200. | ug/kg ug/kg | 12/23/99 |
| Endosulfan I | BQL | 200. | | |
| b-BHC | | | ug/kg | 12/23/99 |
| | BQL | 200. | ug/kg | 12/23/99 |
| Endosulfan II | BQL | 200. | ug/kg | 12/23/99 |
| d-BHC | BQL | 200. | ug/kg | 12/23/99 |
| g-BHC (Lindane) | BQL | 200. | ug/kg | 12/23/99 |

Location Collected: Stripper Room Date Sample Collected: 12/02/1999

Sample Description: CC 006 EAS Project Number: 3211-99 EAS Sample Number: 9913772

Date Sample Received: 12/02/1999

Quantitation Analysis
Parameter Data Limit Units Date

BQL = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558.

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

- 1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.
- Clean Water Act, List of Approved Test Procedures, 40 CFR.
- 3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

HRP Associates, Inc. 167 New Britain Avenue Plainville, CT 06062 Phone: 860-793-6899

HRP

Sheet _ 1 _ of _ 1

CHAIN OF CUSTODY

oject Manager ADM

| <u></u> | 00 / 3 | 3 007 | · | | | | | | | 1.0,0 | ce manager | | | |
|---------------------------------------|-------------|----------|-------------------|---|---------------|-------------|-------------|-----------|---------------|---------------|------------|------|------------|--|
| Place & Addr | ess of Col | lection | 1/1/21/ | | | | | Sample | rs Name (Sign | nature) | 10 | 1 | $\sim A$ | |
| WA | RPB | 6177 | , Co | NNI | ITIC (Hampin) | | | | hn | hall but | | | | |
| Sample 1.D. | Sample | Location | Container Type | Total Volume | F | reservative | | Date Time | | Sample Matrix | | | Remarks | |
| CC 001 | Elic | Trans | <u>(a</u> | 800 | | Cox | | | | Corre pe 1C. | | AP | 778 | |
| CCOUR | 1: | | G_{1} | <u>, , , , , , , , , , , , , , , , , , , </u> | | | | 1 - | 1962 | | | | i | |
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| CC 004 | , | 1 | G | | | | | | 10 | | 7 | | 1 | |
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| Relinguished E | By (Signati | ure) | : | | | Re | ceived By (| Signature | | | Date | | Time | |
| Name & Addr | ess of Lab | oratory: | EA | 5 | . (| om w∫ | i C 1 AL | 5 | ĩ, | M_{\odot} | DDIE KIP | 4 | | |
| / Paramete | ers | | | | | | | Sampl | e ID | | | | | |
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| 40 CFR 26 | 4 | × | | X | | X | | | | |
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| APP. IX | | | | | / | | | | <u> </u> | |
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| Remarks: | | | | HRP | CON | INCT | : W | IKC | CHE | V)WE |

T - TCLP Analysis

S - SPLP Analysis

P - Plastic

G - Glass

Abbreviations:

A - Amber

M - Mass Analysis

APPENDIX D

Calculated Closure Standards

e\rdm\m\rcra closure summary

HRP

Associates Por

MCC CALCULATIONS PM CRITERIA NON-CARCINOGENS

MACDERMID 526 Huntindon Ave Waterbury, CT HRP#MAC0028.RC

| PREPARED BY: | |
|--------------|--|
| DATE: | |
| CHECKED BY: | |
| DATE: | |

Calculated Media Closure Criteria for Pollutant Mobility, Non-Carcinogens

| Example of Calcula RfD _o (mg/kg-day)= | XXX | | (chemical-specific | c value) |
|---|----------|----|--------------------|--|
| • | | | | , |
| HI= | 1.0 | | | |
| BW (kg)= | 70 | | | |
| AT (days)= | 25550 | | | |
| SA = | 0.2 | | | |
| IR (I/day)= | 2 | | | |
| EF (days/year)= | 365 | | | |
| ED (years)= | 70 | | | |
| CF (mg/ug)= | 0.001 | | | |
| GA/ | GAA PMC | = | (B4*B6)*((B7*B8 | 3*B9)/(B10*B11* (in ug/l) |
| | GB PMC | = | 10*D15 (in ug | /I) |
| | | OR | | |
| | GB PMC | = | (20*D17)/ (in mg | g/kg) |
| Dament standard | | | | |
| <u>.Benzyl alcohol</u> RfD _o (mg/kg-day)= | 0.3 | | (CDA NOCA Dag) | anal Curned |
| RiD _o (ing/kg-day)- | 0.3 | | (EPA-NCEA Regi | |
| 1.11 | | | Provisional Va | alue) |
| HI= | 1.0 | | | • |
| BW (kg)= | 70 | | | |
| AT (days)= | 25550 | | | |
| SA = | 0.2 | | | |
| IR (I/day)= | 2 365 | | | |
| EF (days/year)= ED (years)= | 70 | | | |
| | 0.001 | | , | |
| CF (mg/ug)= | 0.001 | | | |
| GA/ | GAA PMC | = | 2,100 ug/l | (Results via TCLP or SPLP) |
| | GB PMC | = | 21,000 ug/l | (MCC for site soils, results via TCLP or SPLP) |
| | | OR | | |
| | | | : | |
| • | GB PMC | = | 420 mg/kg | (MCC for for site soils, results via |

mass analysis)

| MCC CALCULATIONS |
|----------------------------|
| RESIDENTIAL SOIL INGESTION |
| NON-CARCINOGENS |

MACDERMID 526 Huntindon Ave, WATERBURY, CT HRP#MAC0028.RC

| PREPARED BY: | |
|--------------|--|
| DATE: | |
| CHECKED BY: | |
| DATE: | |

Calculated Media Closure Criteria for Residential Soil Ingestion, Non-Carcinogens

| Example | of Calculation | with Cell | References |
|---------|----------------|-----------|------------|
| | | | |

| RfD _o (mg/kg-day)= | XXX | | |
|-------------------------------|----------|--------------------------|----------|
| HI= | 1.0 | | |
| IR _c (mg/day)≈ | 200 | IR_a (mg/day)= | 100 |
| ED _c (years)≈ | 6 | ED _a (years)= | 24 |
| EF (days/year)= | 365 | EF (days/year)= | 365 |
| CF (kg/mg)= | 0.000001 | CF (kg/mg)= | 0.000001 |
| BW _c (kg)≈ | 15 | BW_a (kg)= | 70 |
| AT _c (days)= | 2190 | AT _a (days)= | 8760 |

Residential DEC = (B4*B6)/(((B7*B8*B9*B10)/(B11*B12))+((E7*E8*E9*E10)/(E11*E12)))

Results of calculation are in mg/kg.

| Benzy | . 1 А | 1 | 1 |
|-------|-------|-------|---|
| Denzv | 'I A | ICONO | и |

| RfD_o (mg/kg-day)= | 0.3 | (EPA-NCEA Regiona | al Support Pro | visional Value) |
|---------------------------|----------|---------------------------|----------------|-----------------|
| HI= | 1.0 | | | |
| IR _c (mg/day)= | 200 | IR _a (mg/day)= | 100 | |
| ED _c (years)= | 6 | ED _a (years)= | 24 | |
| EF (days/year)= | 365 | EF (days/year)= | 365 | |
| CF (kg/mg)= | 0.000001 | CF (kg/mg)= | 0.000001 | |
| BW _c (kg)= | 15 | BW _a (kg)= | 70 | |
| AT _c (days)= | 2190 | AT _a (days)= | 8760 | • |
| | | | | |

Residential DEC =

20,323 mg/kg

Calculated Media Closure Criteria for Pollutant Mobility, Non-Carcinogens

Example of Calculation with Cell References

| RfD _o (mg/kg-day)= | XXX | | (chemical | -specific v | value) |
|--|--|---------|-----------|-------------------------|---|
| HI= BW (kg)= AT (days)= SA = IR (l/day)= EF (days/year)= ED (years)= CF (mg/ug)= | 1.0 70 25550 0.2 2 365 70 0.001 | | | | |
| GA | GAA PMC | = | (B4*B6)* | ((B7*B8*£ | 39)/(B10*B11* (in ug/l) |
| | GB PMC | = | 10*D15 | (in ug/l) | • |
| | | OR | | | |
| | GB PMC | = | (20*D17) | (in mg/l | kg) |
| 1. 1.4-Dioxane | | | | | |
| RfD _o (mg/kg-day)= | 0.011 | ٠ | | EA Regior ional Valu | nal Support ue) |
| HI= | 1.0 70 25550 0.2 2 365 70 | | | | |
| CF (mg/ug)= | 0.001 | | | | |
| GA | GAA PMC | = | 77 | ug/l | (Results via TCLP or SPLP) |
| | GB PMC | = OR | 770 | ug/l | (MCC for site soils, results via TCLP or SPLP) |
| | GB PMC | · = | 15 | mg/kg | (MCC for for site soils, results via mass analysis) |

Calculated Media Closure Criteria for Residential Soil Ingestion, Non-Carcinogens

Example of Calculation with Cell References

| RfD _o (mg/kg-day)= | XXX | | |
|-------------------------------|----------|---------------------------|----------|
| HI= | 1.0 | | |
| IR_c (mg/day)= | 200 | IR _a (mg/day)= | 100 |
| ED _c (years)= | 6 | ED _a (years)= | 24 |
| EF (days/year)= | 365 | EF (days/year)= | 365 |
| CF (kg/mg)= | 0.000001 | CF (kg/mg)= | 0.000001 |
| $BW_c (kg) =$ | 15 | BW _a (kg)= | 70 |
| AT _c (days)= | 2190 | AT _a (days)= | 8760 |

Residential DEC = (B4*B6)/(((B7*B8*B9*B10)/(B11*B12))+((E7*E8*E9*E10)/(E11*E12)))

Results of calculation are in mg/kg.

1.4-dioxane

| RfD _o (mg/kg-day)= | 0.011 | (EPA-NCEA Regional Support Provisional Value | | |
|-------------------------------|----------|--|----------|---|
| HI= | 1.0 | , | | |
| IR_c (mg/day)= | 200 | IR _a (mg/day)= | 100 | |
| ED _c (years)= | 6 | ED _a (years)= | 24 | |
| EF (days/year)= | 365 | EF (days/year)= | . 365 | |
| CF (kg/mg)= | 0.000001 | CF (kg/mg)= | 0.000001 | |
| BW_c (kg)= | 15 | BW _a (kg)= | 70 | |
| AT _c (days)= | 2190 | AT _a (days)= | 8760 | ovina de la Seria de la Carte |

Residential DEC =

745 mg/kg

Calculated Media Closure Criteria for Pollutant Mobility, Non-Carcinogens

Example of Calculation with Cell References

| RfD₀ (mg/kg-day)= | XXX | | (chemical-s | pecific valu | Je) |
|-------------------------------|---------|----|-------------|--------------|--|
| HI= | 1.0 | | | ÷ | · |
| BW (kg)= | 70 | | | | |
| AT (days)= | 25550 | | | | |
| SA = | 0.2 | | • | | |
| IR (I/day)= | 2 | | | | |
| EF (days/year)= | 365 | | | | |
| ED (years)= | 70 | | | | |
| CF (mg/ug)= | 0.001 | | | | |
| GA | GAA PMC | = | (B4*B6)*((E | 37*B8*B9 | /(B10*B11* (in ug/l) |
| | GB PMC | = | 10*D15 (| (in ug/l) | |
| | | OR | | | |
| | GB PMC | = | (20*D17)/ (| in mg/kg) | |
| 1. Tin | | | | | |
| RfD _o (mg/kg-day)= | 0.6 | | (EPA-NCEA | Regional | Support |
| | | | Provisio | nal Value) | |
| HI= | 1.0 | | | | |
| BW (kg)= | 70 | | | | , |
| AT (days)= | 25550 | | | . • | |
| SA = | 0.2 | | | | |
| IR (I/day)= | 2 | | | | |
| EF (days/year)= | 365 | | | | • |
| ED (years)= | . 70 | | | | · <i>,</i> |
| CF (mg/ug)= | 0.001 | | | | |
| GA/0 | GAA PMC | = | 4,200 t | ıg/l | (Results via TCLP or SPLP) |
| | 00.000 | • | | _ | |
| · | GB PMC | = | 42,000 t | ıg/I | (MCC for site soils, results via TCLP or SPLP) |
| | | OR | | | |
| | GB PMC | = | 840 r | ng/kg | (MCC for for site soils, results via |
| | | | | - | mass analysis) |

Calculated Media Closure Criteria for Residential Soil Ingestion, Non-Carcinogens

Example of Calculation with Cell References

| | | XXX | RfD _o (mg/kg-day)= |
|----------|---------------------------|----------|-------------------------------|
| | * | 1.0 | HI= |
| 100 | IR _a (mg/day)= | 200 | IR _c (mg/day)= |
| 24 | ED _a (years)= | 6 | ED _c (years)= |
| 365 | EF (days/year)= | 365 | EF (days/year)= |
| 0.000001 | CF (kg/mg)= | 0.000001 | CF (kg/mg)= |
| 70 | $BW_a (kg) =$ | 15 | BW _c (kg)= |
| 8760 | AT _a (days)= | 2190 | AT _c (days)≃ |
| | | | |

Residential DEC = (B4*B6)/(((B7*B8*B9*B10)/(B11*B12))+((E7*E8*E9*E10)/(E11*E12)))

Results of calculation are in mg/kg.

| 01 70 60 |
|----------------------|
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|)1 |
| |
| 65 |
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| 00 |
| |
| t Provisional Value) |
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APPENDIX E

January 13, 2000 Sampling Results

e\rdm\m\rcra closure summary

HRP

P.01



EAS LABORATORIES

FACSIMILE COVER PAGE

| Date: | February 4, 2000 | | | |
|--------------------|--|------|--------|-------------------------------|
| To: | Mike C. | | | |
| Firm: | HRP | . | | |
| Fax Number | r: 860 793-6871 | | | |
| From: | Напу М | | | |
| | er of pages to be sent (including cover sheet): to follow: YESNO | | | |
| Message: | | | | |
| Report. | | | | |
| Thank you Harry | | | | |
| | ******************************* | **** | ****** | ; ==+==******************* |

This message is intended only for the use of the individual to whom, or entity to which, it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is prohibited. If you have received this communication in error, please notify us immediately by telephone (collect), and return the original message to us at the above address. Thank you.

Location Collected: MacDermid Inc., 526 Huntingdon Ave., Waterbury, CT

Date Sample Collected: 01/13/00 Sample Description: 014 - NMP 2 EAS Project Number: 00010195 EAS Sample Number: 00010195-06 Date Sample Received: 01/13/00

| | | • | | Detection | | Analysis |
|-------------------------------|----------|-------|-----------|-----------------|-------|----------|
| Parameter | <u>:</u> | | Data | Limit | Units | Date |
| Cyanide, Solid | | | BDL | 5.0 | mg/kg | 01/24/00 |
| Percent Solids, Solid | 1 . | | 95.6 | 1.0 | % | 01/20/00 |
| Sulfide-Total, Solid | | | 10 | 10 | mg/kg | 01/21/00 |
| Arsenic, Leachable | <u>.</u> | | BDL | 0.10 | mg/L | 01/25/00 |
| Arsenic, Solid | | • | BDL | 2.0 | mg/kg | 01/19/00 |
| Barium, Leachable | : ; | : | 0.58 | 0.0050 | mg/L | 01/24/00 |
| Barium, Solid | | | 81 | 0.10 | mg/kg | 01/19/00 |
| Cadmium, Leachable | : | | BDL | 0.010 | mg/L | 01/24/00 |
| Cadmium, Solid | • | | 4.4 | 0.10 | mg/kg | 01/19/00 |
| Chromium, Leachable | : | | 0.68 | 0.020 | mg/L | 01/24/00 |
| Chromium, Solid | | | 8.6 | 0.40 | mg/kg | 01/19/00 |
| Copper, Leachable | | | 0.92 | 0.010 | mg/L | 01/24/00 |
| Copper, Solid | : | | 170 | 0.20 | mg/kg | 01/19/00 |
| Lead, Leachable | : | | BDL | 0.050 | mg/L | 01/24/00 |
| Lead, Solid | | | 64 | 1.0 | mg/kg | 01/19/00 |
| Metals Digestion for 6010B, L | eachate | | Completed | | i | 01/21/00 |
| Metals Digestion for 6010B, S | olid | • | Completed | | | 01/18/00 |
| Nickel, Leachable | : | . : . | 0.44 | 0.020 | mg/L | 01/24/00 |
| Nickel, Solid | ; ; | | 47 | 0.40 | mg/kg | 01/19/00 |
| Tin, Leachable | | | 0.066 | 0.010 | mg/L | 01/24/00 |
| Tin, Solid | | i • | 180 | 0.20 | mg/kg | 01/19/00 |
| Zinc, Leachable | • | | 7.3 | 0.0050 | mg/L | 01/24/00 |
| Zinc, Solid | • | | 510 | 0.10 | mg/kg | 01/19/00 |
| BNA Extraction, Solid | • | | Completed | | ; | 01/27/00 |
| EP Toxicity Leaching Procedu | re | : | Completed | | | 01/19/00 |
| Method 8270, Solid | | : | • | | | • |
| Bis (2-ethylhexyl) phthalate | ; | • | 1200 | 330 | ug/kg | 01/29/00 |
| Benzyl Alcohol | 1 | | BDL | 330 | ug/kg | 01/29/00 |
| Volatile Organic Compounds, | Solid | | | · · · | | : |
| Acetone | • . | | 36 | 25 | ug/kg | 01/27/00 |
| 2-Butanone | • | | BDL | 10 | ug/kg | 01/27/00 |
| Chlorobenzene | | | BDL | 10 | ug/kg | 01/27/00 |
| Ethyl Benzene | | • | BDL | 10 | ug/kg | 01/27/00 |
| Isobutanol | | | BDL | 10 | ug/kg | 01/27/00 |
| Methylene Chloride | ; | • | BDL | 10 | ug/kg | 01/27/00 |
| Tetrachloroethylene | ! | | BDL | 10 _: | ug/kg | 01/27/00 |
| | | | | | | |

TO

HRP Associates, Inc.

Location Collected: MacDermid Inc., 526 Huntingdon Ave., Waterbury, CT

Date Sample Collected: 01/13/00 Sample Description: 014 - NMP 2 EAS Project Number: 00010195 EAS Sample Number: 00010195-06 Date Sample Received: 01/13/00

| | | Detection | . : | Analysis |
|------------------------|----------------|-----------|-------|-------------|
| Parameter | Data | Limit | Units | <u>Date</u> |
| Toluene | BDL | 10 | ug/kg | 01/27/00 |
| 1,1,1-Trichloroethane | BDL | 10 | ug/kg | 01/27/00 |
| Trichlorofluoromethane | \mathtt{BDL} | 10 | ug/kg | 01/27/00 |
| Trichloroethylene | BDL | 10 | ug/kg | 01/27/00 |
| Xylene | BDL | 10 | ug/kg | 01/27/00 |

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EAS LABORATORIES 13:33 FEB-02-2000

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|----------|-----------------------|---------------|---------------------------------------|---------------------------------------|---------|------------------|-------|
| Date: | February | 2, 2000 | | | | : : | |
| To: | Mr. Greg | Strong : | | | • | | • • • |
| Firm: | MacDerm | id | | | | | |
| Fax Num | ber: 203 575-59 | 16 | i · | | · · · | : | |
| From: | Greg | | : | ; ; | : | : : | |
| | nber of pages to | 1 . , | • • • | ect): | | | |
| Message: | | | : | ; ; | : ·: | i . | |
| Attached | are the analytic | al reports fo | r the concrete : | samples. | ì | • | |
| Thank yo | u, | | · · · · · · · · · · · · · · · · · · · | | : | : | |
| | intended only for the | 1 | al to whom, or entity | · · · · · · · · · · · · · · · · · · · | | hay contain info | |

employee or agent responsible for delivering the message to the intended recipient, you are bereby notified that any dissemination, distribution, or copying of this communication is probiblied. If you have received this communication in error, please notify us immediately by telephone (collect), and return the original message to us at the above address. Thank you.

Location Collected: MacDermid Inc., 526 Huntingdon Ave., Waterbury, CT

Date Sample Collected: 01/13/00

Sample Description: 004 - Solder St. 2

EAS Project Number: 00010195

EAS Sample Number: 00010195-01

Date Sample Received: 01/13/00

| | • | Detection | • | Analysis |
|---------------------------------------|-----------|-----------|---------------|-----------|
| Parameter | Data | Limit | Units | Date |
| Cyanide, Solid. | BDL | 5.0 | mg/kg | 01/24/00. |
| Percent Solids, Solid | 82.5 | 1.0 | % | 01/20/00 |
| Sulfide-Total, Solid | BDL | 10 | mg/kg | 01/21/00 |
| Barium, Leachable | 0.096 | 0.0050 | mg/L | 01/24/00 |
| Barium, Solid | 170 | 0.10 | mg/kg | 01/18/00 |
| Cadmium, Leachable | 0.077 | 0.010 | mg/L | 01/24/00 |
| Cadmium, Solid | 49 | 0.10 | mg/kg | 01/18/00 |
| Chromium, Leachable | 1.3 | 0.020 | mk\T — | 01/24/00 |
| Chromium, Solid | 730 | 0.40 | mg/kg | 01/18/00 |
| Copper, Leachable | 5.9 | 0.010 | mg/L | 01/24/00 |
| Copper, Solid | 3000 | 0.20 | mg/kg | 01/18/00 |
| Lead, Leachable | BDL | 0.050 | mg/L | 01/24/00 |
| Lead, Solid | 1300 | 1.0 | mg/kg mg/L | 01/18/00 |
| Metals Digestion for 60'10B. Leachate | Completed | | mg/rg | 01/21/00 |
| Metals Digestion for 6010B, Solid | Completed | | | 01/21/00 |
| Nickel, Leachable | 0.17 | 0.020 | mg/L | 01/24/00 |
| Nickel, Solid | 90 | 0.40 | mg/kg | 01/18/00 |
| Tin, Leachable | 22 | 0.010 | mg/L | 01/24/00 |
| Tin, Solid | 12000 | 0.20 | mayka men | 01/24/00 |
| Zinc, Leachable | 0.65 | 0.0050 | mg/L | 01/24/00 |
| Zinc, Solid | 210 | 0.10 | mg/kg | 01/18/00. |
| BNA Extraction, Solid | Completed | | me, ve | 01/27/00 |
| EP Toxicity Leaching Procedure | Completed | | | 01/19/00 |
| Method 8270, Solid | | | | 01/15/00 |
| Bis (2-ethylhexyl) phthalate | BDL | 330 | ug/kg | 01/31/00 |
| Butyl benzylphthalate | 147000 | 330 | ug/kg | 01/31/00 |
| Di-n-butylphthslate | BDL | 330 | ug/kg | 01/31/00 |
| Di-n-octylphthalate | BDL | 330 | ug/kg | 01/31/00 |
| Benzyl Alcohol | BDL | 330 | ug/kg | 01/31/00 |
| Volatile Organic Compounds, Solid. | | | -6.16 | 01,4,2,00 |
| Acetone | 69 | 25 | ug/kg | 01/27/00 |
| 2-Butanone | 17 | 10 | ug/kg | 01/27/00 |
| Chlorobenzene | BDI. | 10 | ug/kg | 01/27/00 |
| 1,4-Dioxane | BDL | 100 | ug/kg | 01/27/00 |
| Ethyl Benzene | 16 | 10 | ng/kg | 01/27/00 |
| Isobutanol | BDL | 10 | ug/kg | 01/27/00 |
| | | | | 52.2 |

FEB-02-2000 13:34 FROM FAS LABORATORIES

HRP Associates, Inc.

Location Collected: MacDermid Inc., 526 Huntingdon Avc., Waterbury, CT

Date Sample Collected: 01/13/00

Sample Description: 004 - Solder St. 2

EAS Project Number: 00010195
EAS Sample Number: 00010195-01
Date Sample Received: 01/13/00

| | | Detection | • | Analysis |
|------------------------|------|-----------|-------|----------|
| Parameter | Data | Limit | Units | Date |
| Methylene Chloride | 13 | 10 | ug/kg | 01/27/00 |
| 4-Methyl-2-Pentanone | BDI. | 10 | ug/kg | 01/27/00 |
| Tetrachloroethylene | 13 | 10 | ng/kg | 01/27/00 |
| Toluene | BDL | 10 | ug/kg | 01/27/00 |
| 1,1,1-Trichloroethame | BDL | 10 | ug/kg | 01/27/00 |
| Trichlorofluoromethane | BDL | 10 | ug/kg | 01/27/00 |
| Trichloroethylene | 140 | 10 | ug/kg | 01/27/00 |
| Xylene | BDL | 10 | ug/kg | 01/27/00 |

Location Collected: MacDermid Inc., 526 Huntingdon Ave., Waterbury, CT

Date Sample Collected: 01/13/00

Sample Description: 010 - Equip. Blank

EAS Project Number: 00010195 EAS Sample Number: 00010195-02 Date Sample Received: 01/13/00

| Parameter | | : : | | : | | | | |
|---|---------------------------------------|-------------|-------------|---|--|--|----------------|------------|
| Cyanide, Water | Danamatan | • | | • | D-4 |) } } | | Analysis |
| Sulfide Water BDL | | | | | | <u> Lamit</u> | Units | Date |
| Arsenic, Water BDL 0.10 mg/L 01/20/0 Barium, Water BDL 0.0050 mg/L 01/19/0 Cadmium, Water BDL 0.0050 mg/L 01/19/0 Chromium, Water BDL 0.0050 mg/L 01/19/0 Copper, Water BDL 0.010 mg/L 01/19/0 Lead, Water BDL 0.050 mg/L 01/19/0 Metals Digestion for 200.7, Water BDL 0.050 mg/L 01/19/0 Metals Digestion for 200.7, Water BDL 0.020 mg/L 01/19/0 Metals Digestion for 200.7, Water BDL 0.020 mg/L 01/19/0 Metals Digestion for 200.7, Water BDL 0.020 mg/L 01/19/0 Metals Digestion for 200.7, Water BDL 0.020 mg/L 01/19/0 Tin, Water BDL 0.010 mg/L 01/19/0 BNA Extraction, Water Completed Method 8270, Water Bis (2-ethylhexyl) phthalate BDL 10 ug/L 02/02/0 Bis (2-ethylhexyl) phthalate BDL 10 ug/L 02/02/0 Din-butylphthalate BDL 10 ug/L 02/02/0 Din-butylphthalate BDL 10 ug/L 02/02/0 Benzyl Alcohol BDL 10 ug/L 02/02/0 Volatile Organic Compounds, Water Volatile Organic Compounds, Water Volatile Organic Compounds, Water Acetone 5 0.50 ug/L 01/18/0 Chloromethane BDL 0.50 ug/L 01/18/0 Chloromethane BDL 0.50 ug/L 01/18/0 Chlorobenzene BDL 0.50 ug/L 01/18/0 Vinyl Chloride BDL 0.50 ug/L 01/18/0 Bromomethane BDL 0.50 ug/L 01/18/0 Chlorocthane BDL 0.50 ug/L 01/18/0 Bromomethane BDL 0.50 ug/L 01/18/0 Chlorocthane BDL 0.50 ug/L 01/18/0 | | | • | | | 0.010 | mg/L | 01/25/00 |
| Barium, Water | | | • | | | 1.0 | mg/L | 01/21/00 |
| Cadmium, Water | | | • | • | | 0.10 | mg/L | 01/20/00 |
| Chromium, Water | | | : | | | 0.0050 | mg/L | 01/19/00 |
| Copper, Water | • | | | : | BDL | 0.0050 | mg/L | 01/19/00 |
| Lead, Water BDL 0.050 mg/L 01/19/0 | | | | • | BDL | 0.020 | mg/L | 01/19/00 : |
| Metals Digestion for 200.7, Water Completed 01/18/0 Nickel, Water BDL 0.020 mg/L 01/19/0 Tin, Water BDL 0.010 mg/L 01/19/0 Zinc, Water 0.026 0.010 mg/L 01/19/0 BNA Extraction, Water Completed mg/L 01/19/0 Method 8270, Water BDL 10 ug/L 02/02/0 Butyl benzylphthalate BDL 10 ug/L 02/02/0 Butyl benzylphthalate BDL 10 ug/L 02/02/0 Di-n-butylphthalate BDL 10 ug/L 02/02/0 Di-n-octylphthalate BDL 10 ug/L 02/02/0 Di-n-octylphthalate BDL 10 ug/L 02/02/0 Volatile Organic Compounds, Water Water Volatile Organic Compounds, Water Volatile Organic Compounds, Water Acetone 5 0.50 ug/L 01/18/0 Chlorofluoromethane BDL 0.50 ug/L 01/18/0 Chloroben | | | ' 1 | | \mathtt{BDL} | 0.010 | mg/L | 01/19/00 |
| Metals Digestion for 200.7, Water Completed 0.020 mg/L 01/18/00 Nickel, Water BDL 0.020 mg/L 01/19/00 Tin, Water BDL 0.010 mg/L 01/19/00 BNA Extraction, Water Completed mg/L 01/19/00 Method 3270, Water BDL 10 ug/L 02/02/00 Butyl benzylphthalate BDL 10 ug/L 02/02/00 Butyl benzylphthalate BDL 10 ug/L 02/02/00 Di-n-butylphthalate BDL 10 ug/L 02/02/00 | Lead, Water | : ; | , | · | BDL | 0.050 | mg/L | 01/19/00 |
| Tin, Water | • | 200.7, W | Vater | • | Completed | ! | | 01/18/00 |
| Tin, Water BDL 0.d10 mg/L 01/19/00 Zinc, Water 0.026 0.d10 mg/L 01/19/00 BNA Extraction, Water Completed 01/20/00 Method 8270, Water BDL 10 ug/L 02/02/00 Method 8270, Water BDL 10 ug/L 02/02/00 Butyl benzylphthalate BDL 10 ug/L 02/02/00 Di-n-butylphthalate BDL 10 ug/L 02/02/00 Benzyl Alcohol BDL 10 ug/L 02/02/00 Benzyl Alcohol BDL 10 ug/L 02/02/00 Volatile Organic Compbunds, Water Volatile Organic Compounds, Water Volatile Organic Compounds, Water Vol. 0.50 ug/L 01/18/00 Acetone 5 0.50 ug/L 01/18/00 0.00 ug/L 01/18/00 Chloromethane BDL 0.50 ug/L 01/18/00 0.00 ug/L 01/18/00 0.00 0.00 0.00 0.00 0.00 0. | | : : | , | | BDL | 0.020 | mg/L | 01/19/00 |
| Zinc, Water 0.026 0.010 mg/L 01/19/01 | Tin, Water | ! ! | ' : | | BDL | 0.d10 | • | 01/19/00 |
| BNA Extraction, Water Completed | Zinc, Water | : : | : | | 0.026 | 0.010 | - | 01/19/00 |
| Method 8270, Water Bis (2-ethylhexyl) phthalate BDL 10 ug/L 02/02/00 Butyl benzylphthalate BDL 10 ug/L 02/02/00 Di-n-butylphthalate BDL 10 ug/L 02/02/00 Di-n-octylphthalate BDL 10 ug/L 02/02/00 Benzyl Alcohol BDL 10 ug/L 02/02/00 Volatile Organic Compounds, Water Volatile Organic Compounds, Water Volatile Organic Compounds, Water Vol. 0.50 ug/L 01/18/00 Acetone 5 0.50 ug/L 01/18/00 0.00 <t< td=""><td>BNA Extraction, Wa</td><td>ter</td><td></td><td>•</td><td>Completed</td><td></td><td>v</td><td>01/20/00</td></t<> | BNA Extraction, Wa | ter | | • | Completed | | v | 01/20/00 |
| Butyl benzylphthalate BDL 10 ug/L 02/02/06 Di-n-butylphthalate BDL 10 ug/L 02/02/06 Di-n-octylphthalate BDL 10 ug/L 02/02/06 Benzyl Alcohol BDL 10 ug/L 02/02/06 Volatile Organic Compounds, Water Volatile Organic Compounds, Water 0.50 ug/L 01/18/06 Acetone 5 0.50 ug/L 01/18/06 Chlorofluoromethane BDL 0.50 ug/L 01/18/06 Chloromethane BDL 0.50 ug/L 01/18/06 2-Butanone BDL 0.50 ug/L 01/18/06 Chlorobenzene BDL 0.50 ug/L 01/18/06 Vinyl Chloride BDL 0.50 ug/L 01/18/06 1,4-Dioxane BDL 0.50 ug/L 01/18/06 Bromomethane BDL 0.50 ug/L 01/18/06 Ethyl Benzene BDL 0.50 ug/L 01/18/06 | Method 8270, Water | | | | - | | | |
| Butyl benzylphthalate BDL 10 ug/L 02/02/00 Di-n-butylphthalate BDL 10 ug/L 02/02/00 Di-n-octylphthalate BDL 10 ug/L 02/02/00 Benzyl Alcohol BDL 10 ug/L 02/02/00 Volatile Organic Compounds, Water Volatile Organic Compounds, Water 0.50 ug/L 01/18/00 Acetone 5 0.50 ug/L 01/18/00 Chlorofluoromethane BDL 0.50 ug/L 01/18/00 2-Butanone BDL 0.50 ug/L 01/18/00 Chlorobenzene BDL 0.50 ug/L 01/18/00 Vinyl Chloride BDL 0.50 ug/L 01/18/00 1,4-Dioxane BDL 0.50 ug/L 01/18/00 Bromomethane BDL 0.50 ug/L 01/18/00 Ethyl Benzene BDL 0.50 ug/L 01/18/00 Chloroethane BDL 0.50 ug/L 01/18/00 | Bis (2-ethylhexyl) | phthalat | e : | | BDL | 10 | ug/L | 02/02/00 |
| Di-n-butylphthalate BDL 10 ug/L 02/02/00 Di-n-octylphthalate BDL 10 ug/L 02/02/00 Benzyl Alcohol BDL 10 ug/L 02/02/00 Volatile Organic Compounds, Water 00 ug/L 01/18/00 Acetone 5 0.50 ug/L 01/18/00 Dichlorofluoromethane BDL 0.50 ug/L 01/18/00 Chloromethane BDL 0.50 ug/L 01/18/00 2-Butanone BDL 0.50 ug/L 01/18/00 Chlorobenzene BDL 0.50 ug/L 01/18/00 Vinyl Chloride BDL 0.50 ug/L 01/18/00 1,4-Dioxane BDL 0.50 ug/L 01/18/00 Bromomethane BDL 0.50 ug/L 01/18/00 Ethyl Benzene BDL 0.50 ug/L 01/18/00 Chloroethane BDL 0.50 ug/L 01/18/00 Trichlorofluoromethane BDL | Butyl benzylphtha | late | | · | BDL | 10 | • | • |
| Di-n-octylphthalate | Di-n-butylphthala | te | | 1 | BDL | 10 | • | 02/02/00 |
| Benzyl Alcohol BDL 10 ug/L 02/02/00 | Di-n-octylphthalat | æ : | | 1 | BDL | . [] | — . | • |
| Volatile Organic Compounds, Water 5 0.50 ug/L 01/18/06 Acetone 5 0.50 ug/L 01/18/06 Dichlorofluoromethane BDL 0.50 ug/L 01/18/06 Chloromethane BDL 0.50 ug/L 01/18/06 2-Butanone BDL 0.50 ug/L 01/18/06 Chlorobenzene BDL 0.50 ug/L 01/18/06 Vinyl Chloride BDL 0.50 ug/L 01/18/06 1,4-Dioxane BDL 0.50 ug/L 01/18/06 Bromomethane BDL 0.50 ug/L 01/18/06 Ethyl Benzene BDL 0.50 ug/L 01/18/06 Chloroethane BDL 0.50 ug/L 01/18/06 Trichlorofluoromethane BDL 0.50 ug/L 01/18/06 Isobutanol BDL 0.50 ug/L 01/18/06 Acetone 5.0 5.0 ug/L 01/18/06 Methylene Chloride BD | Benzyl Alcohol | • | | | BDL | | _ | |
| Acetone 5 0.50 ug/L 01/18/00 Dichlorofluoromethane BDL 0.50 ug/L 01/18/00 Chloromethane BDL 0.50 ug/L 01/18/00 2-Butanone BDL 0.50 ug/L 01/18/00 Chlorobenzene BDL 0.50 ug/L 01/18/00 Vinyl Chloride BDL 0.50 ug/L 01/18/00 1,4-Dioxane BDL 0.50 ug/L 01/18/00 Bromomethane BDL 0.50 ug/L 01/18/00 Ethyl Benzene BDL 0.50 ug/L 01/18/00 Chloroethane BDL 0.50 ug/L 01/18/00 Trichlorofluoromethane BDL 0.50 ug/L 01/18/00 Isobutanol BDL 0.50 ug/L 01/18/00 Methylene Chloride BDL 0.50 ug/L 01/18/00 | Volatile Organic Con | pbunds, | Water | • | | | | 02.03.00 |
| Dichlorofluoromethane BDL 0.50 ug/L 01/18/00 Chloromethane BDL 0.50 ug/L 01/18/00 2-Butanone BDL 0.50 ug/L 01/18/00 Chlorobenzene BDL 0.50 ug/L 01/18/00 Vinyl Chloride BDL 0.50 ug/L 01/18/00 1,4-Dioxane BDL 0.50 ug/L 01/18/00 Bromomethane BDL 0.50 ug/L 01/18/00 Ethyl Benzene BDL 0.50 ug/L 01/18/00 Chloroethane BDL 0.50 ug/L 01/18/00 Trichlorofluoromethane BDL 0.50 ug/L 01/18/00 Isobutanol BDL 0.50 ug/L 01/18/00 Acetone 5.0 5.0 ug/L 01/18/00 Methylene Chloride BDL 0.50 ug/L 01/18/00 | Volatile Organic Con | pounds, | Water | | • | | | • |
| Dichlorofluoromethane BDL 0.50 ug/L 01/18/00 Chloromethane BDL 0.50 ug/L 01/18/00 2-Butanone BDL 0.50 ug/L 01/18/00 Chlorobenzene BDL 0.50 ug/L 01/18/00 Vinyl Chloride BDL 0.50 ug/L 01/18/00 1,4-Dioxane BDL 0.50 ug/L 01/18/00 Bromomethane BDL 0.50 ug/L 01/18/00 Ethyl Benzene BDL 0.50 ug/L 01/18/00 Chloroethane BDL 0.50 ug/L 01/18/00 Trichlorofluoromethane BDL 0.50 ug/L 01/18/00 Isobutanol BDL 0.50 ug/L 01/18/00 Methylene Chloride BDL 0.50 ug/L 01/18/00 | Acetone | | | : | 5 | 0.50 | ue/I. | 01/18/00 |
| Chloromethane BDL 0.50 ug/L 01/18/00 2-Butanone BDL 0.50 ug/L 01/18/00 Chlorobenzene BDL 0.50 ug/L 01/18/00 Vinyl Chloride BDL 0.50 ug/L 01/18/00 1,4-Dioxane BDL 0.50 ug/L 01/18/00 Bromomethane BDI 0.50 ug/L 01/18/00 Ethyl Benzene BDL 0.50 ug/L 01/18/00 Chloroethane BDL 0.50 ug/L 01/18/00 Trichlorofluoromethane BDL 0.50 ug/L 01/18/00 Isobutanol BDL 0.50 ug/L 01/18/00 Acetone 5.0 5.0 ug/L 01/18/00 Methylene Chloride BDL 0.50 ug/L 01/18/00 | Dichlorofluoromet | hane | ; ; | • | BDL | l i | | |
| 2-Butanone BDL 0.50 ug/L 01/18/00 Chlorobenzene BDL 0.50 ug/L 01/18/00 Vinyl Chloride BDL 0.50 ug/L 01/18/00 1,4-Dioxane BDL 0.50 ug/L 01/18/00 Bromomethane BDL 0.50 ug/L 01/18/00 Ethyl Benzene BDL 0.50 ug/L 01/18/00 Chloroethane BDL 0.50 ug/L 01/18/00 Trichlorofluoromethane BDL 0.50 ug/L 01/18/00 Isobutanol BDL 0.50 ug/L 01/18/00 Acetone 5.0 5.0 ug/L 01/18/00 Methylene Chloride BDL 0.50 ug/L 01/18/00 | Chloromethane | ÷ | • | | BDL | i : | | |
| Chlorobenzene BDL 0.50 ug/L 01/18/00 Vinyl Chloride BDL 0.50 ug/L 01/18/00 1,4-Dioxane BDL 0.50 ug/L 01/18/00 Bromomethane BDL 0.50 ug/L 01/18/00 Ethyl Benzene BDL 0.50 ug/L 01/18/00 Chloroethane BDL 0.50 ug/L 01/18/00 Trichlorofluoromethane BDL 0.50 ug/L 01/18/00 Isobutanol BDL 0.50 ug/L 01/18/00 Acetone 5.0 5.0 ug/L 01/18/00 Methylene Chloride BDL 0.50 ug/L 01/18/00 | 2-Butanone | : | | | | the state of the s | • | • |
| Vinyl Chloride BDL 0.50 ug/L 01/18/00 1,4-Dioxane BDL 0.50 ug/L 01/18/00 Bromomethane BDL 0.50 ug/L 01/18/00 Ethyl Benzene BDL 0.50 ug/L 01/18/00 Chloroethane BDL 0.50 ug/L 01/18/00 Trichlorofluoromethane BDL 0.50 ug/L 01/18/00 Isobutanol BDL 0.50 ug/L 01/18/00 Acetone 5.0 5.0 ug/L 01/18/00 Methylene Chloride BDL 0.50 ug/L 01/18/00 | Chlorobenzene | | | | | 1 1 . | | |
| 1,4-Dioxane BDL 0.50 ug/L 01/18/00 Bromomethane BDI. 0.50 ug/L 01/18/00 Ethyl Benzene BDL 0.50 ug/L 01/18/00 Chloroethane BDL 0.50 ug/L 01/18/00 Trichlorofluoromethane BDL 0.50 ug/L 01/18/00 Isobutanol BDL 0.50 ug/L 01/18/00 Acetone 5.0 5.0 ug/L 01/18/00 Methylene Chloride BDL 0.50 ug/L 01/18/00 | Vinyl Chloride | : • | | | | | | |
| Bromomethane BDI. 0.50 ug/L 01/18/00 Ethyl Benzene BDL 0.50 ug/L 01/18/00 Chloroethane BDL 0.50 ug/L 01/18/00 Trichlorofluoromethane BDL 0.50 ug/L 01/18/00 Isobutanol BDL 0.50 ug/L 01/18/00 Acetone 5.0 5.0 ug/L 01/18/00 Methylene Chloride BDL 0.50 ug/L 01/18/00 | 1,4-Dioxane | ; · | i : | | | 1 1 1 | | |
| Ethyl Benzene BDL 0.50 ug/L 01/18/00 Chloroethane BDL 0.50 ug/L 01/18/00 Trichlorofluoromethane BDL 0.50 ug/L 01/18/00 Isobutanol BDL 0.50 ug/L 01/18/00 Acetone 5.0 5.0 ug/L 01/18/00 Methylene Chloride BDL 0.50 ug/L 01/18/00 | | | : ! | | and the second s | i | | |
| Chloroethane BDL 0.50 ug/L 01/18/00 Trichlorofluoromethane BDL 0.50 ug/L 01/18/00 Isobutanol BDL 0.50 ug/L 01/18/00 Acetone 5.0 5.0 ug/L 01/18/00 Methylene Chloride BDL 0.50 ug/L 01/18/00 | Ethyl Benzene | : : | | | | | | |
| Trichlorofluoromethane BDL 0.50 ug/L 01/18/00 Isobutanol BDL 0.50 ug/L 01/18/00 Acetone 5.0 5.0 ug/L 01/18/00 Methylene Chloride BDL 0.50 ug/L 01/18/00 | | | \$ | | | 1 1 . | • | |
| Isobutanol BDL 0.50 ug/L 01/18/00 Acetone 5.0 5.0 ug/L 01/18/00 Methylene Chloride BDL 0.50 ug/L 01/18/00 | | hane | | | | | | |
| Acetone 5.0 5.0 ug/L 01/18/00 Methylene Chloride BDL 0.50 ug/L 01/18/00 | | | | • | | 1 : | ; -·· | |
| Methylene Chloride BDL 0.50 ug/L 01/18/00 | · · · · · · · · · · · · · · · · · · · | : | | | | 1 : | • | |
| | • | е ' | | | | 1 | - | |
| | - ' : | | ٠, | | | | · - | 01/18/00 |
| | , = = = ====== | | | | | | 45/L | 0111000 |

Location Collected: MacDermid Inc., 526 Huntingdon Ave., Waterbury, CT

→ Date Sample Collected: 01/13/00

Sample Description: 010 - Equip. Blank

EAS Project Number: 00010195 EAS Sample Number: 00010195-02 Date Sample Received: 01/13/00

| | | Detection | • | A a 1ai- |
|---------------------------|------|-----------|-------|------------------|
| Parameter | Data | Limit | Units | Analysis Date |
| 4-Methyl-2-Pentanone | BDL | 0.50 | ug/L | 01/18/00 |
| Tetrachloroethylene | BDL | 0.50 | ug/L | 01/18/00 |
| Methylene Chloride | BDL | 0.50 | ug/L | 01/18/00 |
| Toluene | BDL | 0.50 | ug/L | 01/18/00 |
| Trans-1,2-Dichloroethene | BDL | 0.50 | ug/L | 01/18/00 |
| 1.1.1-Trichloroethane | BDL | 0.50 | ug/L | 01/18/00 |
| MTBE | BDL | 0.50 | ug/L | 01/18/00 |
| 1,1-Dichloroethane | BDL | 0.50 | ug/L | 01/18/00 |
| Trichlorofluoromethane | BDL | 0.50 | ug/L | 01/18/00 |
| Trichloroethylene | BDL | 0.50 | ug/L | 01/18/00 |
| 2-Butanone | BDL. | 5.0 | ug/L | 01/18/00 |
| Xylene | BDL | U.50 | ug/L | 01/18/00 |
| cis-1,2-Dichloroethene | BDL | 0.50 | ug/L | 01/18/00 |
| 2,2-Dichloropropane | BDL | 0.50 | ug/L | 01/18/00 |
| Chloroform | BDL | 0.50 | ug/I, | 01/18/00 |
| Bromochloromethane | BDL | 0.50 | ug/L | 01/18/00 |
| 1,1,1-Trichloroethane | BDL | 0.50 | ug/L | 01/18/00 |
| 1,1-Dichloropropene | BDL | 0.50 | ug/L | 01/18/00 |
| 1,2-Dichloroethane | BDI. | 0.50 | ug/L | 01/18/00 |
| Carbon Tetrachloride | BDL | 0.50 | ug/L | 01/18/00 |
| Benzene | BDL | 0.50 | ug/L | 01/18/00 |
| Trichloroethene | BDL | 0.50 | ug/L | 01/18/00 |
| 1,2-Dichloropropane | BDI. | 0.50 | ug/L | 01/18/00 |
| Dibromomethane | BOL | 0.50 | ng/L | 01/18/00 |
| Bromodichloromethane | BDL | 0.50 | ug/L | 01/18/00 |
| 4-Methyl-2-Pentanone | BDL | 5.0 | ug/L | 01/18/00 |
| cis-1,3-Dichloropropene | BDL | 0.50 | ug/I | 01/18/00 |
| Toluene | BDL | 0.50 | ug/l. | 01/18/00 |
| Trans-1,3-Dichloropropene | BDL | 0.50 | ug/L | 01/18/00 |
| 1,1,2-Trichloroethane | BDL | 0.50 | ug/L | 01/18/00 |
| 2-Hexanone | BDL | 5.0 | ug/L | 01/18/00 |
| 1,3-Dichloropropane | BDL | 0.50 | jug/L | 01/18/00 |
| Dibromochloromethane | BDL | 0.50 | ug/L | 01/18/00 |
| Tetrachoroethylene | BDL | 0.50 | ug/L | 01/18/00 |
| 1,2-Dibromoethane | BDL | 0.50 | ug/L | 01/18/00 |
| Chlorobenzene | BDL | 0.50 | ug/L | 01/18/00 |

Location Collected: MacDermid Inc., 526 Huntingdon Ave., Waterhury, CT

Date Sample Collected: 01/13/00

Sample Description: 010 - Equip. Blank

EAS Project Number: 00010195 EAS Sample Number: 00010195-02 Date Sample Received: 01/13/00

| | | Detection | | Analysis |
|-----------------------------|------|-----------|-------|----------|
| Parameter | Data | Limit . | Units | Date |
| 1,1,1,2-Tetrachloroethane | BDL | 0.50 | ug/L | 01/18/00 |
| Ethylbenzene | BDL | 0.50 | ug/L | 01/18/00 |
| m/p-Xylene | BDL | 0.50 | ug/L | 01/18/00 |
| Styrene | BDL | 0.50 | ug/L | 01/18/00 |
| 0-Xylene | BDL | 0.50 | ug/l | 01/18/00 |
| Bromoform | BDL. | 0.50 | ug/L | 01/18/00 |
| 1,1,2,2-Tetrachloroethane | BDL | 0 5 0 | ug/L | 01/18/00 |
| Isopropylbenzene | BDI. | 0.50 | ug/L | 01/18/00 |
| 1,2,3-Trichloropropane | BDL | 0.50 | ug/L | 01/18/00 |
| Bromobenzene | BDL | 0.50 | ug/L | 01/18/00 |
| n-Propylbenzene | BDL | 0.50 | ug/L | 01/18/00 |
| 2-Chlorotoluene | BDL | 0.50 | ug/L | 01/18/00 |
| 4-Chlorotoluene | BDL | 0.50 | ug/L | 01/18/00 |
| 1,3,5-Trimethylbenzene | BDI. | 0.50 | ug/L | 01/18/00 |
| tert-Butylbenzene | BDL | 0.50 | ug/L | 01/18/00 |
| 1,2,4-Trimethylbenzene | BDL | 0.50 | ug/l. | 01/18/00 |
| sec-Butylbenzene | BDL | 0.50 | ug/L | 01/18/00 |
| 1,3-Dichlorobenzene | BDL | 0.50 | ug/L | 01/18/00 |
| 1,4-Dichlorobenzene | BDL | 0.50 | ug/L | 01/18/00 |
| p-Isopropyltoluene | BDL | 0.50 | ug/L | 01/18/00 |
| 1,2-Dichlorobenzene | BDL | 0.50 | ug/L | 01/18/00 |
| n-Butylbenzene | BDL | 0.50 | ug/L | 01/18/00 |
| 1,2-Dibromo-3-Chloropropane | BDL | 0.50 | ug/L | 01/18/00 |
| 1,2,4-Trichlorobenzene | BDL | 0.50 | ug/L | 01/18/00 |
| Napthalene | BDL | 0.50 | Llgu. | 01/18/00 |
| Hexachlorobutadiene | BDL | 0.50 | ug/L | 01/18/00 |
| 1,2,3-Trichlorobenzene | BDL | 0.50 | ug/L | 01/18/00 |

Location Collected: MacDermid Inc., 526 Huntingdon Ave., Waterbury, CT

Date Sample Collected: 01/13/00 Sample Description: 011 - Trip Blank

EAS Project Number: 00010195 EAS Sample Number: 00010195-03 Date Sample Received: 01/13/00

| | | Detection | . . | Analysis |
|-----------------------------------|-----------|-----------|------------|----------|
| Parameter | Data | Limit | Units | Date |
| Cyanide, Water | BDL | 0.010 | mg/L | 01/25/00 |
| Sulfide, Water | BDL | 10 | mg/L | 01/21/00 |
| Arsenic, Water | BDL | 0.10 | mg/L | 01/20/00 |
| Barium, Water | BDL | 0.0050 | mg/L | 01/19/00 |
| Cadmium, Water | BDI. | 0.0050 | mg/L | 01/19/00 |
| Chromium, Water | BDL | 0.020 | mg/L | 01/19/00 |
| Copper, Water | BDL | 0.010 | mg/l. | 01/19/00 |
| Lead, Water | BDL | 0.050 | mg/L | 01/19/00 |
| Metals Digestion for 200.7, Water | Completed | | Ü | 01/18/00 |
| Nickel, Water | BDL | 0.020 | mg/L | 01/19/00 |
| Tin, Water | BDL | 0.010 | mg/L | 01/19/00 |
| Zinc, Water | 0.017 | 0.010 | mg/L | 01/19/00 |
| BNA Extraction, Water | Completed | | , | 01/20/00 |
| Method 8270, Water | • | | • | |
| Bis (2-ethylhexyl) phthalate | BDL | 10 | ug/L | 02/02/00 |
| Butyl benzylphthalate | BDL | 10 | ug/L | 02/02/00 |
| Di-n-butylphthalate | BDL | 10 | ug/L | 02/02/00 |
| Di-n-octylphthalate | BDL | 10 | ug/[. | 02/02/00 |
| Benzyl Alcohol | BDL | 10 | ug/L | 02/02/00 |
| Volatile Organic Compounds, Water | | | β. ~ | 02/02/00 |
| Volatile Organic Compounds, Water | | į ; | | • |
| Acetone | 6.4 | 0.50 | ug/L | 01/18/00 |
| Dichlorofluoromethane | BDL | 0.50 | ug/L | 01/18/00 |
| 2-Butanone | BDL | 0.50 | ug/L | 01/18/00 |
| Chloromethane | BDL | 0.50 | ug/L | 01/18/00 |
| Chlorobenzene | BDL | 0.50 | ug/L | 01/18/00 |
| Vinyl Chloride | BDL | 0.50 | ug/L | 01/18/00 |
| Bromomethane | BDL | 0.50 | ug/L. | 01/18/00 |
| 1,4-Dioxane | BDL | 0.50 | ug/L | 01/18/00 |
| Chloroethane | BDL | 0.50 | ug/L | 01/18/00 |
| Ethyl Benzene | BDL | 0.50 | ug/L | 01/18/00 |
| Isobutanol | BDL | 0.50 | ug/L | 01/18/00 |
| Trichlorofluoromethane | BDL | 0.50 | ug/L. | 01/18/00 |
| Acetone | 6.4 | 5.0 | ug/L | 01/18/00 |
| Methylene Chloride | BDL | 0.50 | ug/L | 01/18/00 |
| 1,1-Dichloroethene | BDL | 0.50 | ug/L | 01/18/00 |

Location Collected: MacDermid Inc., 526 Huntingdon Ave., Waterbury, CT

Date Sample Collected: 01/13/00 Sample Description: 011 - Trip Blank

EAS Project Number: 00010195 EAS Sample Number: 00010195 03 Date Sample Received: 01/13/00

| | | | 1 ' ' | | |
|---------------------------|-----|----------------|-----------|----------------------|----------|
| | : | | Detection | | Analysis |
| <u>Parameter</u> | • | Data | Limit | Units | Date |
| 4-Methyl-2-Pentanone | | BDL | 0.50 | ug/L | 01/18/00 |
| Methylene Chloride | | BDL | 0.50 | ug/I, | 01/18/00 |
| Tetrachloroethylene | ř | BDL | 0.50 | ug/L | 01/18/00 |
| Toluene | • | BDL | 0.50 | ug/I, | 01/18/00 |
| Trans-1,2-Dichloroethene | | BDL | 0.50 | ug/L | 01/18/00 |
| MTBE | 4 | BDL. | 0.50 | ug/L | 01/18/00 |
| 1,1,1 Trichloroethane | | BDL | 0.50 | ug/L | 01/18/00 |
| 1,1-Dichloroethane | . ' | BDL | 0.50 | ug/L | 01/18/00 |
| Trichlorofluoromethane | | \mathtt{BDL} | 0.50 | ug/L | 01/18/00 |
| 2-Butanone | | BDL | 5.0 | ug/L | 01/18/00 |
| Trichloroethylene | | BDL | 0.50 | ug/L | 01/18/00 |
| cis-1,2-Dichloroethene | • | BDL | 0.50 | ug/L | 01/18/00 |
| Xylene | | BDL | 0.50 | ug/L | 01/18/00 |
| 2,2-Dichloropropane | | BDL | 0.50 | ug/L | 01/18/00 |
| Chloroform | | BDL | 0.50 | ug/L | 01/18/00 |
| Bromochloromethane | | BDL | 0.50 | ug/L | 01/18/00 |
| 1,1,1-Trichloroethane | | BDL | 0.50 | ug/L | 01/18/00 |
| 1,1-Dichloropropene | | BDL | 0.50 | ug/L | 01/18/00 |
| 1,2-Dichloroethane | | BDL | 0.50 | ug/L | 01/18/00 |
| Carbon Tetrachloride | | BDL | 0.50 | ug/L | 01/18/00 |
| Benzene | | BDL | 0.50 | ug/L | 01/18/00 |
| Trichloroethene | | BDL | 0.50 | ug/L | 01/18/00 |
| 1,2-Dichloropropane | | BDL | 0.50 | ug/L | 01/18/00 |
| Dibromomethane | | BDL | 0.50 | ug/L | 01/18/00 |
| Bromodichloromethane | | BDL | 0.50 | ug/L | 01/18/00 |
| 4-Methyl-2-Pentanone | | BDL | 5.0 | ug/L | 01/18/00 |
| cis-1,3-Dichloropropene | | BDL | 0.50 | ug/L | 01/18/00 |
| Toluene | . : | BDL | 0.50 | ug/L | 01/18/00 |
| Trans 1,3-Dichloropropene | | BDL. | 0.50 | ug/L | 01/18/00 |
| 1,1,2-Trichloroethane | | BDL | 0.50 | ug/L | 01/18/00 |
| 2-Hexanone | | BDL | 5.0 | ug/L | 01/18/00 |
| 1,3-Dichloropropane | | BDL | 0.50 | ug/L | 01/18/00 |
| Dibromochloromethane | | BDL | 0.50 | ug/L | 01/18/00 |
| Tetrachoroethylene | | BDL | 0.50 | ug/L | 01/18/00 |
| 1,2-Dibromoethane | | BDL | 0.50 | ug/L | 01/18/00 |
| Chlorobenzene | | BDL | 0.50 | ug/L | 01/18/00 |
| | | | | ~ 5, ~ | 01,10,00 |

Location Collected: MacDermid Inc., 526 Huntingdon Ave., Waterbury, CT

Date Sample Collected: 01/13/00 Sample Description: 011 - Trip Blank EAS Project Number: 00010195 EAS Sample Number: 00010195-03

Date Sample Received: 01/13/00

| | Detection | | Analysis |
|----------------|---|---------------|------------|
| Data | Limit | Units | Date |
| BDI. | 0.50 | ug/L | 01/18/00 |
| BDL | 0.50 | ug/L | 01/18/00 |
| BDL | 0.50 | ug/L | 01/18/00 |
| BDL | 0.50 | ug/L | 01/18/00 |
| BDL | 0.50 | ug/L | 01/18/00 |
| BDL | 0.50 | ug/L | 01/18/00 |
| BDL | 0.50 | ug/L | 01/18/00 |
| BDL | 0.50 | ug/L | 01/18/00 |
| BDL | 0.50 | ug/L | 01/18/00 |
| BDL | 0.50 | ug/L | 01/18/00 |
| BDL | 0.50 | ug/I. | 01/18/00 |
| BDL | 0.50 | ug/L | 01/18/00 |
| BDL | 0.50 | ug/L | 01/18/00 |
| BDL | 0.50 | ug/L | 01/18/00 |
| BDL | 0.50 | ug/L | 01/18/00 |
| BDL | 0.50 | ug/I. | 01/18/00 |
| \mathtt{BDL} | 0.50 | ug/L | 01/18/00 |
| BDL | 0.50 | ug/L | 01/18/00 |
| \mathtt{BDL} | 0.50 | ug/L | 01/18/00 |
| BDL | 0.5ψ | ug/L | 01/18/00 |
| BDL | 0.50 | ug/L | 01/18/00 - |
| BDL | 0.50 | ug/L | 01/18/00 |
| BDL | 0.50 | ug/L | 01/18/00 |
| BDL | 0.50 | ug/L | 01/18/00 |
| BDL | 0.50 | ug/L | 01/18/00 |
| BDL | 0.50 | ug/L | 01/18/00 |
| BDL | 0.50 | ug/L | 01/18/00 |
| | BDL | Data Ilimit | Data |

Location Collected: MacDermid Inc., 526 Huntingdon Avc., Waterbury, CT

Date Sample Collected: 01/13/00 Sample Description: 012 - 2nd Slab EAS Project Number: 00010195 EAS Sample Number: 00010195-04 Date Sample Received: 01/13/00

| | | T. | • | |
|--------------------------------------|--------------|-----------|--------|----------|
| | | Detection | | Analysis |
| Parameter | Data | Limit | Units | Date |
| Cyanide, Solid | BDL | 5.0 | πιγ/kg | 01/24/00 |
| Percent Solids, Solid | 97.2 | 1.0 | % | 01/20/00 |
| Sulfide Total, Solid | 17 | 10 | mg/kg | 01/21/00 |
| Barium, Leachable | 0.018 | 0.0050 | mg/L | 01/24/00 |
| Barium, Solid | ' 8.0 | 0.10 | mg/kg | 01/19/00 |
| Cadmium, Leachable | 0.013 | 0.010 | mg/L | 01/24/00 |
| Cadmium, Solid | 76 | 0.10 | mg/kg | 01/19/00 |
| Chromium, Leachable | BDL | 0.020 | mg/L | 01/24/00 |
| Chromium, Solid | 1800 | 0.40 | mg/kg | 01/19/00 |
| Copper, Leachable | 0.052 | 0 0 10 | mg/L | 01/24/00 |
| Copper, Solid | 1300 | 0.20 | mg/kg | 01/19/00 |
| Lead, Leachable | BDL | 0.050 | mg/l. | 01/24/00 |
| Lead, Solid | 90 | 1.0 | mg/kg | 01/19/00 |
| Metals Digestion for 6010B, Leachate | Completed | į į | | 01/21/00 |
| Metals Digestion for 6010B, Solid | Completed | | | 01/18/00 |
| Nickel, Leachable | 0.55 | 0.020 | mg/L | 01/24/00 |
| Nickel, Solid | 360 | 0.40 | mg/kg | 01/19/00 |
| Tin, Leachable | 0.08 | 0.010 | mg/L | 01/24/00 |
| Tin, Solid | 890 | 0.20 | mg/kg | 01/19/00 |
| Zinc, Leachable | 0.037 | 0.0050 | mg/L | 01/24/00 |
| Zinc, Solid | 61 | 0.10 | mg/kg | 01/19/00 |
| BNA Extraction, Solid | Completed | , | | 01/27/00 |
| EP Toxicity Leaching Procedure | Completed | ! | | 01/19/00 |
| Method 8270, Solid | • | . : | • | |
| Bis (2-ethylhexyl) phthalate | BDL | 330 | ug/kg | 01/29/00 |
| Butyl benzylphthalate | BDL | 330 | ng/kg | 01/29/00 |
| Di-n-butylphthalate | BDL | 330 | ug/kg | 01/29/00 |
| Di-n-octylphthalate | BDL | 330 | ug/kg | 01/29/00 |
| Benzyl Alcohol | BDL | 330 | ag/kg | 01/29/00 |
| Volatile Organic Compounds, Solid | | | | |
| Acetone | 95 | 25 | ug/kg | 01/27/00 |
| 2 Butanone | 25 | 10 | ug/kg | 01/27/00 |
| Chlorobenzene | BDL | 10 | ug/kg | 01/27/00 |
| 1,4-Dioxane | BDL | 100 | ug/kg | 01/27/00 |
| Ethyl Benzene | BUL | 10 | ug/kg | 01/27/00 |
| Isobutanol | BDL | 10 | ug/kg | 01/27/00 |
| ADOD & DELLIOI | ., | | V5148 | 01/2//00 |

Location Collected: MacDermid Inc., 526 Huntingdon Ave., Waterbury, CT

Date Sample Collected: 01/13/00 Sample Description: 012 - 2nd Slab EAS Project Number: 00010195 EAS Sample Number: 00010195-04 Date Sample Received: 01/13/00

| | • | Detection | | Analysis |
|------------------------|------|-----------|-------|----------|
| Parameter | Data | Limit | Units | Date |
| Methylene Chloride | 12 | 10 | ug/kg | 01/27/00 |
| 4-Methyl-2-Pentanone | BDL | 10 | ug/kg | 01/27/00 |
| Tetrachloroethylene | BDL | 10 | ug/kg | 01/27/00 |
| Toluene | BDI. | 10 | ug/kg | 01/27/00 |
| 1,1,1-Trichloroethane | BDL | 10 | ug/kg | 01/27/00 |
| Trichlorofluoromethane | BDL | 10 | ug/kg | 01/27/00 |
| Trichloroethylene | . 11 | 10 | ug/kg | 01/27/00 |
| Xylene | BDL | 10 ¦ | ug/kg | 01/27/00 |

Location Collected: MacDermid Inc., 526 Huntingdon Ave., Waterbury, CT

Date Sample Collected: 01/13/00 Sample Description: 013 - NMP 1 EAS Project Number: 00010195 EAS Sample Number: 00010195-05 Date Sample Received: 01/13/00

| | | i | | |
|--------------------------------------|-----------|---------------------------------------|-------------|-------------|
| | | Detection | | · Analysis |
| Parameter | Data | Limit | Units | <u>Date</u> |
| Cyanide, Solid | BDL | 5.0 | mg/kg | 01/24/00 |
| Percent Solids, Solid | 95.6° | 1.0 | % | 01/20/00 |
| Sulfide-Total, Solid | BDL | 10 | mg/kg | 01/21/00 |
| Arsenic, Leachable | BDL | 0.10 | mg/L | 01/25/00 |
| Arsenic, Solid | BDL | 2.0 | mg/kg | 01/19/00 |
| Barium, Leachable | 0.48 | 0.0050 | mg/L | 01/24/00 |
| Barium, Solid | 57 | 0.10 | mg/kg | 01/19/00 |
| Cadmium, Leachable | BDL. | 0.010 | mg/L | 01/24/00 |
| Cadmium, Solid | 3.1 | 0.10 | mg/kg | 01/19/00 |
| Chromium, Leachable | 0.64 | 0.020 | mg/L | 01/24/00 |
| Chromium, Solid | 51 | 0.40 | mg/kg | 01/19/00 |
| Copper, Leachable | 1.1 | 0.010 | mg/L | 01/24/00 |
| Copper, Solid | 150 | 0.20 | mg/kg | 01/19/00 |
| Lead, Leachable | 0.062 | 0.050 | mg/L | 01/24/00 |
| Lead, Solid | 45 | 1.0 | mg/kg | 01/19/00 |
| Metals Digestion for 6010B, Leachate | Completed | | 0 8 | 01/21/00 |
| Metals Digestion for 6010B, Solid | Completed | | • | 01/18/00 |
| Nickel, Leachable | 0.56 | 0.020 | mg/L | 01/24/00 |
| Nickel, Solid | 44 | 0.40 | una∖ka | 01/19/00 |
| Tin, Leachable | 0.029 | 0.010 | mg/l. | 01/24/00 |
| Tin, Solid | 95 | 0.20 | mg/kg | 01/19/00 |
| Zinc, Leachable | 8.6 | 0.0050 | mg/L | 01/24/00 |
| Zinc, Solid | 570 | 0.10 | mg/kg | 01/19/00 |
| BNA Extraction, Solid | Completed | . i | | 01/27/00 |
| EP Toxicity Leaching Procedure | Completed | | | 01/19/00 |
| Method 8270, Solid | | | | • |
| Bis (2-ethylhexyl) phthalate | 4700 | 330 | ug/kg | 01/31/00 |
| Benzyl Alcohol | BDL | 330 | ng/kg | 01/31/00 |
| Volatile Organic Compounds, Solid | , | i | 3 ., | |
| Acetone | 63 | 25 | ug∕kg | 01/27/00 |
| 2-Butanone | BDL | 10 i | ug/kg | 01/27/00 |
| Chlorobenzene | BDL | 10; | ug/kg | 01/27/00 |
| Ethyl Benzene | BDL | 10 | ug/kg | 01/27/00 |
| Isobutanol | BDL | 10 | ug/kg | 01/27/00 |
| Methylene Chloride | BDL | 10 | ug/kg | 01/27/00 |
| Tetrachloroethylene | BDL | 10 | ug/kg | 01/27/00 |
| | | · · · · · · · · · · · · · · · · · · · | | |

Location Collected: MacDermid Inc., 526 Huntingdon Ave., Waterbury, CT

Date Sample Collected: 01/13/00 Sample Description: 013 - NMP 1 EAS Project Number: 00010195 EAS Sample Number: 00010195-05 Date Sample Received: 01/13/00

| | • | Detection | • | Analysis |
|------------------------|------|-----------|-------|----------|
| Parameter | Data | Limit | Units | Date |
| Toluene | BDL | 10 | ug/kg | 01/27/00 |
| 1,1,1-Trichloroethane | BDL | 10 | ng/kg | 01/27/00 |
| Trichlorofluoromethane | BDL | 10 | ug/kg | 01/27/00 |
| Trichloroethylene | BDL | 10 ! | ug/kg | 01/27/00 |
| Xylene | BDL | 10 | ug/kg | 01/27/00 |

Location Collected: MacDermid Inc., 526 Huntingdon Ave., Waterbury. CT

Date Sample Collected: 01/13/00 Sample Description: 013 - NMP 2 EAS Project Number: 00010195. EAS Sample Number: 00010195-06 Date Sample Received: 01/13/00

| Parameter | Data | Detection Limit | : TT-24- | Analysia |
|--|----------------|--------------------|-------------|----------|
| | | | Units | Date |
| Cyanide, Solid | BDL | 5.0 | mg/kg | 01/24/00 |
| Percent Solids, Solid Sulfide-Total, Solid | 95.6 10 | 1.0 | % | 01/20/00 |
| | 10 | 10 | mg/kg | 01/21/00 |
| Arsenic, Leachable | BDI. | 0.10 | mg/L | 01/25/00 |
| Arsenic, Solid | BDL | 2.0 | mg/kg | 01/19/00 |
| Barium, Leachable | 0.58 | 0.0050 | mg/L | 01/24/00 |
| Barium, Solid | 81 | 0.10 | mg/kg | 01/19/00 |
| Cadmium, Leachable | BDL | 0.010 | mg/L | 01/24/00 |
| Cadmium, Solid | 4.4 | 0.10 | mg/kg | 01/19/00 |
| Chromium, Leachable | 0.68 | 0.020 | നഴ് । | 01/24/00 |
| Chromium, Solid | 8.6 | 0.40 | mg/kg | 01/19/00 |
| Copper, Leachable | 0.92 | 0.010 | mg/L | 01/24/00 |
| Copper, Solid | 170 | 0.20 | mg/kg | 01/19/00 |
| Lead, Leachable | \mathtt{BDL} | 0.050 | mg/L | 01/24/00 |
| Lead, Solid | 64 | 1.0 | mg/kg | 01/19/00 |
| Metals Digestion for 6010B, Leachate | Completed | | • | 01/21/00 |
| Metals Digestion for 6010B, Solid | Completed | - | | 01/18/00 |
| Nickel, Leachable | 0.44 | 0.020 | mg/L | 01/24/00 |
| Nickel, Solid | 47 | 0.40 | mg/kg | 01/19/00 |
| Tin, Leachable | 0.066 | 0.010 | mg/L | 01/24/00 |
| Tin, Solid | 180 | 0.20 | mg∕kg | 01/19/00 |
| Zinc, Leachable | · 7.3 | 0.0050 | mg/L | 01/24/00 |
| Zinc, Solid | 510 | 0.10 | mg/kg | 01/19/00 |
| BNA Extraction, Solid | Completed | | | 01/27/00 |
| EP Toxicity Leaching Procedure | Completed | | • | 01/19/00 |
| Method 8270, Solid | | | | |
| Bis (2-ethylhexyl) phthalate | 1200 | 330 | ug/kg | 01/29/00 |
| Benzyl Alcohol | BDL | 330 | ug/kg | 01/29/00 |
| Volatile Organic Compounds, Solid | | | | |
| Acetone | 36 | 25 | ug/kg | 01/27/00 |
| 2-Butanone | BDL | 10 | ug/kg | 01/27/00 |
| Chlorobenzene | BDL | 10 | ug/kg | 01/27/00 |
| Ethyl Benzene | BDL | 10 | ug/kg | 01/27/00 |
| Isobutanol | BDL | 10 | ug/kg | 01/27/00 |
| Methylene Chloride | BDL | 10 | ug/kg | 01/27/00 |
| Tetrachloroethylene | BDL | 10 | ug/kg | 01/27/00 |
| | | | ~~~~~ | 01/2//00 |

Location Collected: MacDermid Inc., 526 Huntingdon Ave., Waterbury, CT

Date Sample Collected: 01/13/00 Sample Description: 013 - NMP 2 EAS Project Number: 00010195 EAS Sample Number: 00010195 06 Date Sample Received: 01/13/00:

| Parameter | | Data | Detection Limit | Units | Analysis Date |
|------------------------|---|------|--------------------|-------|------------------|
| Toluene | | BDL | 10 | ug/kg | 01/27/00 |
| 1,1,1-Trichloroethane | | BDL | 10 | ug/kg | 01/27/00 |
| Trichlorofluoromethane | ; | BDL | 10 | ug/kg | 01/27/00 |
| Trichloroethylene | | BDL | 10: | ug/kg | 01/27/00 |
| Xylene | | BDI. | 10' | ug/kg | 01/27/00 |

Location Collected: MacDermid Inc., 526 Huntingdon Ave., Waterbury, CT

Date Sample Collected: 01/13/00 Sample Description: 005 - Flam. Stor.

EAS Project Number: 00010195 EAS Sample Number: 00010195-07 Date Sample Received: 01/13/00

| | | | Detection | | Analysis |
|--------------------------------------|-------|-----------|-----------|-------|----------|
| Parameter | * | Data | Limit | Units | Date |
| Cyanide, Solid | | BDL | 5.0 | mg/kg | 01/24/00 |
| Percent Solids, Solid | | 95.4 | 1.0 | % | 01/20/00 |
| Sulfide-Total, Solid | | BDL | 10 | mg/kg | 01/21/00 |
| Barium, Leachable | | 0.26 | 0.0050 | mg/L | 01/24/00 |
| Barium, Solid | | 99 | 0.10 | mg/kg | 01/18/00 |
| Cadmium, Leachable | | BDL | 0.010 | mg/L | 01/24/00 |
| Cadmium, Solid | | 5.0 | 0.10 | mg/kg | 01/18/00 |
| Chromium, Leachable | • | 0.033 | 0.020 | mg/L | 01/24/00 |
| Chromium, Solid | | 55 | 0.40 | mg/kg | 01/18/00 |
| Copper, Leachable | | 0.18 | 0.010 | mg/L | 01/24/00 |
| Copper, Solid | | 150 | 0.20 | mg/kg | 01/18/00 |
| Lead, Leachable | | BDL | 0.050 | ing/L | 01/24/00 |
| Lead. Solid | | 43 | 1.0 | mg/kg | 01/18/00 |
| Metals Digestion for 6010B, Leachate | | Completed | | : | 01/21/00 |
| Metals Digestion for 6010B, Solid | | Completed | | | 01/17/00 |
| Nickel, Leachable | | 0.40 | 0.020 | mg/L | 01/24/00 |
| Nickel, Solid | | 50 | 0.40 | mg/kg | 01/18/00 |
| Tin, Leachable | | 0.016 | 0.010 | mg/L | 01/24/00 |
| Tin, Solid | | 20 | 0.20 | mg/kg | 01/18/00 |
| Zinc, Leachable | • | 2.5 | 0.0ψ50 | mg/L | 01/24/00 |
| Zinc, Solid | | 470 | 0.10 | mg/kg | 01/18/00 |
| BNA Extraction, Solid | | Completed | | • | 01/27/00 |
| EP Toxicity Leaching Procedure | • | Completed | į | i | 01/19/00 |
| Method 8270, Solid | | | | • | . • |
| Bis (2-ethylhexyl) phthalate | | 2300 | 330 | ug∕kg | 01/31/00 |
| Di-n-butylphthalate | | 52000 | 330 | ug/kg | 01/31/00 |
| Volatile Organic Compounds, Solid | | | | • | |
| Acetone | | 90 | 25 | ug/kg | 01/27/00 |
| 2-Butanone | | BDL | 10 | ug/kg | 01/27/00 |
| Chlorobenzene | | BDL | 10 | ug/kg | 01/27/00 |
| 1,4-Dioxane | | BDL | 100 | ug/kg | 01/27/00 |
| Ethyl Benzene | ! | 2000 | 10 | ug/kg | 01/27/00 |
| Isobutanol | : | BDL | 10 | ug/kg | 01/27/00 |
| Methylene Chloride | : | 13 | 10 | ug/kg | 01/27/00 |
| 4-Methyl-2-Pentanone | | BDL | 10 | ug/kg | 01/27/00 |
| Tetrachloroethylene | , (. | 1,400 | 10 | ug/kr | 01/27/00 |
| BDL = Below Detection Limit | | | | | |
| | | | l . | • | |

Location Collected: MacDermid Inc., 526 Huntingdon Ave., Waterbury, CT

✓ Date Sample Collected: 01/13/00

Sample Description: 005 - Flam, Stor.

EAS Project Number: 00010195 EAS Sample Number: 00010195-07

Date Sample Received: 01/13/00

| Parameter | Data | Detection Limit |) Units | Analysis Date |
|------------------------|-------|-----------------|------------|----------------|
| Toluene | 3000 | 10 | ug/kg | 01/27/00 |
| 1,1,1-Trichloroethane | BDL | 1.0 | ug/kg | 01/27/00 |
| Trichlorofluoromethane | BDL | 10 | ug/kg | 01/27/00 |
| Trichloroethylene - | 120 | 10 | ug/kg | 01/27/00 |
| Xylene | 14000 | 10 | ug/kg | 01/27/00 |

Location Collected: MacDermid Inc., 526 Huntingdon Ave., Waterbury, CT

Date Sample Collected: 01/13/00

Sample Description: 006 - Flam. Stor.

EAS Project Number: 00010195 EAS Sample Number: 00010195-08 Date Sample Received: 01/13/00

| Parameter | | Data | Detection, Limit | · Units | Analysis Date |
|--------------------------------------|-----------------------|-----------|---------------------|--------------|------------------|
| Cyanide, Solid | | BDL | 5.0 | mg/kg | 01/24/00 |
| Percent Solids, Solid | | 95.5 | 1.0 | % % | 01/20/00 |
| Sulfide-Total, Solid | | BDL | 10 | mg/kr | 01/21/00 |
| Barium, Leachable | * | 0.31 | 0.0050 | mg/L | 01/24/00 |
| Barium, Solid | | 90 | 0.10 | mg/kg | 01/18/00 |
| Cadmium, Leachable | | BDL | 0.010 | ing/]_ | 01/24/00 |
| Cadmium, Solid | | 4.6 | 0.10 | mg/kg | 01/18/00 |
| Chromium, Leachable | 0.05 | 0.05 | 0.020 | mg/L | 01/24/00 |
| Chromium, Solid | <i>V</i> . <i>V</i>) | 56 | 0.40 | mg/kg | 01/18/00 |
| Copper, Leachable | | 0.41 | 0.010 | mg/L | 01/24/00 |
| Copper, Solid | | 170 | 0.20 | mg/kg | 01/18/00 |
| Lead, Leachable | | BDL | 0.050 | mg/L | 01/24/00 |
| Lead, Solid | | 44 | 1.0 | प्रश्रीप्राच | 01/18/00 |
| Metals Digestion for 6010B, Leachate | | Completed | | 7.65.7.6 | 01/21/00 |
| Metals Digestion for 6010B, Solid | | Completed | • | i | 01/17/00 |
| Nickel, Leachable | | 0.49 | 0.020 | mg/L | 01/24/00 |
| Nickel, Solid | | 53 | 0.40 | mg/kg | 01/24/00 |
| Tin, Leachable | | 0.042 | 0.010 | $m^{k}I'$ | 01/13/00 |
| Tin, Solid | | 110 | 0.20 | mg/kg | 01/18/00 |
| Zinc, Leachable | | 3.9 | 0.0050 | mg/L | 01/24/00 |
| Zinc, Solid | | 500 | 0.10 | mg/kg | 01/18/00 |
| BNA Extraction, Solid | • | Completed | • | - %& | 01/27/00 |
| EP Toxicity Leaching Procedure | | Completed | | • | 01/19/00 |
| Method 8270, Solid | | - | • | | |
| Bis (2-ethylhexyl) phthalate | | 830 | 330 | ug/kg | 01/31/00 |
| Di-n-butylphthalate | | 61000 | 330 | ug/kg | 01/31/00 |
| Volatile Organic Compounds, Solid | | | | 10 1 | <u> </u> |
| Acetone | | 150 | 25 | ug/kg | 01/27/00 |
| 2-Butanone | • | 200 | 10 | ug/kg | 01/27/00 |
| Chlorobenzene | | BDL | 10 | ug/kg | 01/27/00 |
| 1,4-Dioxane | | 290 | 100 | ug/kg | 01/27/00 |
| Ethyl Benzene | | 950 | 10 | ug/kg | 01/27/00 |
| Isobutanol | • | BDL | 10 | ug/kg | 01/27/00 |
| Methylene Chloride | | BDL. | 10 | ug/kg | 01/27/00 |
| 4-Methyl-2-Pentanone | | BDI. | 100 | ug/kg | 01/27/00 |
| Tetrachloroethylene | • | 23 | 10 | ug/kg | 01/27/00 |

マミジンティンシンエし

HRP Associates, Inc.

Location Collected: MacDermid Inc., 526 Huntingdon Ave., Waterbury, CT

Date Sample Collected: 01/13/00

Sample Description: 006 - Flam. Stor.

EAS Project Number: 00010195 EAS Sample Number: 00010195-08 Date Sample Received: 01/13/00

| Parameter | Data | Detection Limit | Units | Analysis Date |
|------------------------|----------------|--------------------|-------|------------------|
| Toluene | 99 | 10 | л≨∖кё | 01/27/00 |
| 1,1,1-Trichloroethane | BDL | 10 | ug/kg | 01/27/00 |
| Trichlorofluoromethane | \mathtt{BDL} | 10 | ug/kg | 01/27/00 |
| Trichloroethylene | 24 | 10 | ug/kg | 01/27/00 |
| Xylene | 5900 | 10 | ug/kg | 01/27/00 |

Location Collected: MacDermid Inc., 526 Huntingdon Ave., Waterbury, CT

Date Sample Collected: 01/13/00

Sample Description: 007 - Flam Stor.

EAS Project Number: 00010195

EAS Sample Number: 00010199-09

Date Sample Received: 01/13/00

| | * | | | |
|--------------------------------------|-----------|--------------------|-------------|----------|
| Parameter | Data | Detection Limit | 111-24- | Analysis |
| | | | Units | Date |
| Cyanide, Solid | BDL | 5.0 | mg/kg | 01/24/00 |
| Percent Solids, Solid | 94.3 | 1.0 | % | 01/20/00 |
| Sulfide-Total, Solid | BDL | 10 | mg/kg | 01/21/00 |
| Barium, Leachable | 0.27 | 0.0050 | ${	t mg/L}$ | 01/24/00 |
| Barium, Solid | 69 | 0.10 | mg/kg | 01/18/00 |
| Cadmium, Leachable | BDL | 0.010 | $_{ m L}$ | 01/24/00 |
| Cadmium, Solid | 4.2 | 0.10 | 'mg/kg | 01/18/00 |
| Chromium, Leachable | 0.27 | 0.020 | mg/L | 01/24/00 |
| Chromium, Solid | 58 | 0.40 | mg/kg | 01/18/00 |
| Copper, Leachable | 0 38 | 0.010 | mg/L | 01/24/00 |
| Copper, Solid | 150 | 0.20 | mg/kg | 01/18/00 |
| Lead, Leachable | BDL | 0.05d | mg/L | 01/24/00 |
| Lead, Solid | 43 | 1.0 | mg/kg | 01/18/00 |
| Metals Digestion for 6010B, Leachate | Completed | : | | 01/21/00 |
| Metals Digestion for 6010B, Solid | Completed | | | 01/17/00 |
| Nickel, Leachable | 0.48 | 0.020 | mg/L | 01/24/00 |
| Nickel, Solid | -50 | 0.40 | mg/kg | 01/18/00 |
| Tin, Leachable | BDL | 0.010 | mg/L | 01/24/00 |
| Tin, Solid | 43 | 0.20 | mg/kg | 01/18/00 |
| Zinc, Leachable | 3.8 | 0.0050 | mg/L | 01/24/00 |
| Zinc, Solid | 480 | 0.10 | mg/kg | 01/18/00 |
| BNA Extraction, Solid | Completed | | | 01/27/00 |
| EP Toxicity Leaching Procedure | Completed | | • | 01/19/00 |
| Method 8270, Solid | | | | |
| Bis (2-ethylhexyl) phthalate | 370 | 330 | ug/kg | 01/31/00 |
| Di-n-butylphthalate | 31000 | 330 | ug∕kg | 01/31/00 |
| Volatile Organic Compounds, Solid | 200 | | | |
| Acetone | 100 | 25 | ug/kg | 01/27/00 |
| 2-Butanone | BDL | 10 | ug/kg | 01/27/00 |
| Chlorobenzene | BDL | 10 | ng/kg | 01/27/00 |
| 1,4-Dioxane | BDI. | 100 | ug/kg | 01/27/00 |
| Ethyl Benzene | 1100 | 10 | ug/kg | 01/27/00 |
| Isobutanol | BUL | 10 | ug/kg | 01/27/00 |
| Methylene Chloride | BDL | 10 | ug/kg | 01/27/00 |
| 4-Methyl-2-Pentanone | BDL | 10 | ug/kg | 01/27/00 |
| Tetrachloroethylene | 13 | 10 | ug/kg | 01/27/00 |
| | | | ''B' **9 | |

Location Collected: MacDermid Inc., 526 Huntingdon Ave., Waterbury, CT

Date Sample Collected: 01/13/00

Sample Description: 007 - Flam. Stor.

EAS Project Number: 00010195 EAS Sample Number: 00010195-09 Date Sample Received: 01/13/00

| | | Detection | | Analysis |
|------------------------|------|-----------|--------|----------|
| Parameter | Data | Limit | Units | Date |
| Toluene | 100 | 1.0 | ug/kg | 01/27/00 |
| 1,1,1-Trichloroethane | BDL | 10 | ug/kg | 01/27/00 |
| Trichlorofluoromethane | BDL | 10 | ug/kg | 01/27/00 |
| Trichloroethylene | BDL | 10 | ug/kg | 01/27/00 |
| Xylene | 7000 | 10 | .ug/kg | 01/27/00 |

Location Collected: MacDermid Inc., 526 Huntingdon Ave., Waterbury, CT

Date Sample Collected: 01/13/00

Sample Description: 008 - Flam. Stor.

EAS Project Number: 00010195 EAS Sample Number: 00010195 10 Date Sample Received: 01/13/00

| Parameter | Data | Detection Limit | Units | Analysis Date |
|--------------------------------------|-----------|--------------------|--------|------------------|
| Cyanide, Solid | BDI. | 5.0 | mg/kg | 01/24/00 |
| Percent Solids, Solid | 95.5 | 1.0 | . % | 01/20/00 |
| Sulfide-Total, Solid | BDL | 10 | mg/kg | 01/21/00 |
| Barium, Leachable | 0.30 | 0.0050 | mg/L | 01/24/00 |
| Barium, Solid | 74 | 0.10 | mg/kg | 01/18/00 |
| Cadmium, Leachable | BDL | 0.010 | mg/L | 01/24/00 |
| Cadmium, Solid | 4.0 | 0.10 | mg/kg | 01/18/00 |
| Chromium, Leachable | BDL | 0.020 | mg/L | 01/24/00 |
| Chromium, Solid | 44 | 0.40 | mg/kg | 01/18/00 |
| Copper, Leachable | 0.22 | 0.010 | mg/L | 01/24/00 |
| Copper, Solid | 120 | 0.20 | mg/kg | 01/18/00 |
| Lead, Leachable | BDL | 0.050 | mg/L | 01/24/00 |
| Lead, Solid | 36 | 1.0 | mg/kg | 01/18/00 |
| Metals Digestion for 6010B, Leachate | Completed | . ` | | 01/21/00 |
| Metals Digestion for 6010B, Solid | Completed | | | 01/17/00 |
| Nickel, Leachable | 0.44 | 0.020 | mg/L | 01/24/00 |
| Nickel, Solid | 41 | 0.40 | zng/kg | 01/18/00 |
| Tin, Leachable | 0.029 | 0.010 | ;mg/L | 01/24/00 |
| Tin, Solid | 19 | 0.20 | mg/kg | 01/18/00 |
| Zinc, Lenchable | 3.0 | 0.0050 | mg/L | 01/24/00 |
| Zinc, Solid | 380 | 0.10 | mg/kg | 01/18/00 |
| BNA Extraction, Solid | Completed | : | | 01/27/00 |
| EP Toxicity Leaching Procedure | Completed | i | ; | 01/19/00 |
| Method 8270, Solid | • | : | • | |
| Bis (2-ethylhexyl) phthalate | 440 | 330 | ug/kg | 01/31/00 |
| Di-n-butylphthalate | 27000 | 330 | ug/kg | 01/31/00 |
| Volatile Organic Compounds, Solid | | | 0 0 | |
| Acetone | 63 | 25 | ug/kg | 01/27/00 |
| 2-Butanone | 47 | 10 | lug/kg | 01/27/00 |
| Chlorobenzene | BDL | 10 | ug/kg | 01/27/00 |
| 1,4-Dioxane | 360 | 100 | ug/kg | 01/27/00 |
| Ethyl Benzene | 1100 | 10 | ug/kg | 01/27/00 |
| Isobutanol | BDL | 10 | 'ug/kg | 01/27/00 |
| Mcthylene Chloride | BDL | 10 | ug/kg | 01/27/00 |
| 4-Methyl-2-Pentanone | BDL | 10 | ug/kg | 01/27/00 |
| Tetrachloroethylene | 76 | 10 | ug/kg | 01/27/00 |

Location Collected: MacDermid Inc., 526 Huntingdon Ave., Waterbury, CT

Date Sample Collected: 01/13/00

Sample Description: 008 - Flam! Stor.

EAS Project Number: 00010195 EAS Sample Number: 00010195-10 Date Sample Received: 01/13/00

| | • | • | Detection | | Analysis |
|------------------------|----------|------|-----------|-------|----------|
| Parameter | <u> </u> | Data | Limit | Units | Date |
| Toluene | | 210 | 10 | ug/kg | 01/27/00 |
| 1,1,1-Trichloroethane | ; | BDL | 10 | ug/kg | 01/27/00 |
| Trichlorofluoromethane | | BDL | 10 | սց/ևբ | 01/27/00 |
| Trichloroethylene | | BDL | 10 | ug/kg | 01/27/00 |
| Xylene | } | 7700 | 10 | ug/kg | 01/27/00 |

Location Collected: MacDermid Inc., 526 Huntingdon Avc., Waterbury, CT

Date Sample Collected: 01/13/00
Sample Description: 009 - Flam Stor.
EAS Project Number: 00010195
EAS Sample Number: 00010195-11
Date Sample Received: 01/13/00

| | | Detection | | Analysis |
|--------------------------------------|-----------|-----------|-----------------|-------------|
| Parameter | Data | Limit | Units | Date |
| Cyanide, Solid | BDL | 5.0 | mg/kg | 01/24/00 |
| Percent Solids, Solid | 95.4 | 1.0 | , mg/kg | 01/29/00 |
| Sulfide-Total, Solid | BDL | 10 | mg/kg | 01/21/00 |
| Barium, Leachable | 0.13 | 0.0050 | mg/L | 01/25/00 |
| Barium, Solid | 71 | 0.10 | mg/kg | 01/18/00 |
| Cadmium, Leachable | BDL | 0.010 | m8\[' | 01/25/00 |
| Cadmium, Solid | 3.6 | 0.10 | mg/kg | 01/18/00 |
| Chromium, Leachable | BDL | 0.020 | mg/L | 01/25/00 |
| Chromium, Solid | 52 | 0.40 | mg/kg | 01/18/00 |
| Copper, Leachable | 0.16 | 0.010 | mg/L | 01/25/00 |
| Copper, Solid | 140 | 0.20 | mg/kg | 01/18/00 |
| Lead, Leachable | BDL | 0.050 | mg/L | 01/25/00 |
| Lead, Solid | 40 | 1.0 | mg/kg | 01/18/00 |
| Metals Digestion for 6010B, Leachate | Completed | 1 | ********** | 01/24/00 |
| Metals Digestion for 6010B, Solid | Completed | į . | | 01/17/00 |
| Nickel, Leachable | 0.14 | 0.020 | mg/L | 01/25/00 |
| Nickel, Solid | 48 | 0.40 | m8√rg mev⊏.~ | 01/18/00 |
| Tin, Leachable | 0.023 | 0.010 | mg/L | 01/25/00 |
| Tin, Solid | 28 | 0.20 | mg/kg | 01/18/00 |
| Zinc, Leachable | 1.3 | 0.0050 | mg∏. | 01/25/00 |
| Zinc, Solid | 460 | 0.10 | mg/kg | 01/18/00 |
| BNA Extraction, Solid | Completed | 1 | | 01/27/00 |
| EP Toxicity Leaching Procedure | Completed | <u> </u> | • | 01/19/00 |
| Method 8270, Solid | • • | | | - 2, 24, 11 |
| Bis (2-ethylhexyl) phthalate | 720 | 330 | ug/kg | 01/31/00 |
| Di-n-butylphthalate | 18000 | 330 | ug/kg | 01/31/00 |
| Volstile Organic Compounds, Solid | | | 3 3 | |
| Acetone | 78 | 10 | ug/kg | 01/27/00 |
| 2-Butanone | 190 | 10 | ug/kg | 01/27/00 |
| Chlorobenzene | BDL | 10 | ug/kg | 01/27/00 |
| 1,4-Dioxane | 170 | 100 | ug/kg | 01/27/00 |
| Ethyl Benzene | 1300 | 10 | ug/kg | 01/27/00 |
| Isobutanol | BDL | 10 | ug/kg | 01/27/00 |
| Methylene Chloride | BDL | 10 | ns\ks | 01/27/00 |
| 4-Methyl-2-Pentanone | BDL | 10 | ug/kg | 01/27/00 |
| Tetrachloroethylene | 52 | 10 | ug/kg | 01/27/00 |

Location Collected: MacDermid Inc., 526 Huntingdon Ave., Waterbury, CT

Date Sample Collected: 01/13/00

Sample Description: 009 - Flam: Stor.

EAS Project Number: 00010195 EAS Sample Number: 00010195-11 Date Sample Received: 01/13/00

| i. | : | | Detection | | Analysis |
|------------------------|--------|------|-----------|--------|----------|
| Parameter | 1 | Data | Limit | Units | Date |
| Toluene | | 220 | 10 | !ug/kg | 01/27/00 |
| 1,1,1-Trichloroethane | i | BDL | 10 | ug/kg | 01/27/00 |
| Trichlorofluoromethane | : | BDL. | 10 | ug/kg | 01/27/00 |
| Trichloroethylene | 1 | 16 | 10 | ug/kg | 01/27/00 |
| Xylene | j 1 | 9000 | 10 | 'ug/kg | 01/27/00 |

HRP Associates, Inc. 167 New Britain Avenue Plainville, CT 06062 Phone: 860-793-6899

HRP

MAC COIS.RC Job Number

Sheet / of

| Fax: 8 | 60-793 | -6871 | <u> </u> | | CHAIN OF CUSTODY Project Manager | | | | | DM | | |
|--|--|----------|-------------------|-----------------|----------------------------------|-------------|------------------|---------------|--------------------|------------------|-------------|------------|
| Place & Address of Collection. MAIL DERMID, Inc. Samplers Name (Signature) 526 HUNTINGDON AND WATERBURY, CT RING a Claude | | | | | | | | | | | | |
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| Abbreviations: | G - GI | ass | P - Plastic. | | Amber | T:- TCL | | | · , — ——— | | | |
| L | Abbreviations: G - Glass P - Plastic A - Amber T - TCLP Analysis M - Mass Analysis S - SPLP Analysis | | | | | | | | | | | |

HRP Associates, Inc. 167 New Britain Avenue Plainville, CT 06062 **HRP**

<u>/</u> of _ Sheet

Phone: 860-793-6899

Job Number MAC 0078.20

| Fax: 860-793 | 3-6871 | | CHAIN OF | CUSTO | DY | Project N | lanager | RDM | |
|---------------------------|---|-----------------|-----------------|----------------|---------------------------------------|-----------|----------------|----------------|--------------|
| Place & Address of Coll | ection $\bigcap_{\mathbf{L} \in \mathcal{D}}$ | CLMID | , Inc | Sampler | s Name (Signa | ture) | | | |
| 526 HUN | TING DON / | | | G | 12 | inta | <u> </u> | m D | |
| Sample Sample I | | Total Volume | Preservative | Date | Time | Sample | Matrix | Rem | arks |
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| Name & Address of Labo | oratory: EAS | : Cer | narzeia, Si | - М, | DDIEB | UPP C | -T | | |
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| Remarks: 6 ALL T | PARAMETES O | N ATTA | CHED LIST T | BY MAG | SS Ami | 714516 | | | |
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| BIN ADDITION, | | | Da 2 2 2 2 4 1 | | | | | | |
| Abbreviations: G 30 | | | ALCOHO | L IHRY | | ァ:加比 | | | |
| wontexistious: D 🕳 C | 11455 F - F145TIC | A = A | muer - I - IULP | WIIGIA212 | M = M922 | HIIGIYSIS | a - artr Analy | 712 | 40.00 |

HRP Associates, Inc. 167 New Britain Avenue Plainville, CT 06062

HRP

| | Silee | · | 01 _ |
|------------|-------|-------|------|
| Job Number | MAC | C028. | e C |

Phone: 860-793-6899

CHAIN OF CUSTODY

| ^c ax: 860-793-687 | 1 | OTIAIN OT | | | Project Manager | <u> </u> | |
|--|--------------------------------|------------------|----------------|--------|-----------------|--------------|--|
| Place & Address of Collection MAC DERMIN 1- Samplers Name (Signature) | | | | | | | |
| 526 HUNTINGAIN AVE WATERBURY, CT / Lul (1 Club) | | | | | | | |
| Sample Sample Location 1.D. | Container Total Type Volume | Preservative | Date | Time | Sample Matrix | Remarks | |
| ## 013 NMP 1 | 61854 80Z | COOL | | | SEE CONCRE | SEE BELOW | |
| DEPOIT NMP Z | 1. 1. | ٠, | | | ETE CONCRE | - 1/ | |
| | (1 | | | | | | |
| 201 NMP1 | - | | | | Soll | HoiD | |
| ODE NAPZ | + 0 | J. | ···· | | Gult | HOLD | |
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| Relinquished By (Signature) | | Received | By (Signature) | | Date | Time | |
| Name & Address of Laboratory: | EG CA | S Comme | PC)AL S | PEET | MIDDLEBU | y CI | |
| Parameters | | | Sample | | | | |
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| SEE BELOW) | | | | | | | |
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| Remarks: A ALL PARAMA | ETERS DA AT | TACHEN LIST | RY N | Apss A | NALYSIS | | |
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| A SECOND . | | - 1 | | | | | |
| | | · | | | CO-THICK : MIKE | | |
| Abbreviations: G G Glass P - Plastic A - Amber T - TCLP Analysis M - Mass Analysis S - SPLP Analysis | | | | | | | |

APPENDIX F

February 9, 2000 Sampling Results

e\rdm\m\rcra closure summary



EAS LABORATORIES

FROM

FACSIMILE COVER PAGE

| Date: | February 22, 2000 | |
|-----------------------|---|--|
| To: | Mike C. | |
| Firm: | HRP | |
| Fax Number: | 860 793-6871 | |
| From: | Harry Mullin | |
| | r of pages to be sent (including cover sheet): ofollow: YESNO | |
| Message: | | |
| Reports. The hardcopy | will be mailed to Greg Strong. | |
| Thank you Harry | | |
| | | |
| | • | |

This message is intended only for the use of the individual to whom, or entry to which, it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is prohibited. If you have received this communication in error, please notify us immediately by telephone (collect), and return the original message to us at the above address. Thank you.

MACDERMID, INC.

Location Collected: 526 Huntingdon Avenue, Waterbury, CT

Date Sample Collected: 02/09/00

Sample Description: B001 Solder Strip

Strip SLAFALE SOIL

EAS Project Number: 00020124 EAS Sample Number: 00020124-01 Date Sample Received: 02/09/00 Chient Project Number: MAC0028 RC

| | | Detection | : | Analysis |
|--------------------------------------|-----------|---|-------|-----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | 0.01 | 0.010 | mg/L | 02/17/00 |
| Cadmium, Solid | 10 | 0.10 | mg/kg | 02/15/00 |
| Chromium, Leachable | 0.26 | 0.040 | mg/L | 02/17/00 |
| Copper, Leachable | 0.97 | 0.030 | mg/L | 02/17/00 |
| Copper, Solid | 950 | 0.20 | mg/kg | 02/15/00 |
| Lead, Solid | 79 | 1.0 | mg/kg | 02/15/00 |
| Metals Digestion for 6010B, Leachate | Completed | | | 02/14/00 |
| Metals Digestion for 6010B, Solid | Completed | | | 02/11/00 |
| Tin, Leachable | 36 | 0.020 | mg/L | 02/17/00. |
| EP Toxicity Leaching Procedure | Completed | : : | • , | 02/11/00 |
| Volatile Organic Compounds, Solid | - | · • • • • • • • • • • • • • • • • • • • | : | |
| Trichloroethylene | 95 | 10 | ug/kg | 02/15/00 |

Location Collected: 526 Huntingdon Avenue, Waterbury, CT

Date Sample Collected 02/09/00

Sample Description: B002 Solder Strip

1' BEIM

EAS Project Number: 00020124 EAS Sample Number: 00020124-02 Date Sample Received: 02/09/00 Client Project Number: MAC0028.RC

| | | Detection | • | Analysis |
|--------------------------------------|-----------|-----------|-------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | BDL | 0.010 | mg/L | 02/17/00 |
| Cadmium, Solid | 7.0 | 0.10 | mg/kg | 02/15/00 |
| Chromium, Leachable | 0.043 | 0.040 | mg/L | 02/17/00 |
| Copper, Leachable | 0.17 | 0.030 | mg/L | 02/17/00 |
| Copper, Solid | 500 | 0.20 | mg/kg | 02/15/00 |
| Lead, Solid | 55 | 1.0 | mg/kg | 02/15/00 |
| Metals Digestion for 6010B. Leachate | Completed | | į | 02/14/00 |
| Metals Digestion for 6010B, Solid | Completed | | : | 02/11/00 |
| Tin, Leachable | 2.6 | 0.020 | mg/L | 02/17/00 |
| EP Toxicity Leaching Procedure | Completed | | | 02/11/00 |
| Volatile Organic Compounds, Solid | | | ļ | |
| Trichloroethylene | 15 | 10 | ug/kg | 02/18/00 |

MACDERMID, INC.

Location Collected: 526 Huntingdon Avenue, Waterbury, CT

Date Sample Collected: 02/09/00

Sample Description: B003 Solder Strip

EAS Project Number: 00020124 EAS Sample Number: 00020124-08 Date Sample Received: 02/09/00 Client Project Number: MAC0028.RC

| Parameter | Data | Detection Limit | 77 | Analysis |
|--------------------------------------|-----------|--------------------|-------|----------|
| ratameter | Data | Lillin | Units | Date |
| Cadmium, Leachable | BDL | 0.010 | mg/L | 02/17/00 |
| Cadmium, Solid | 35 | 0.10 | mg/kg | 02/15/00 |
| Chromium, Leachable | BDL | 0.040 | mg/L | 02/17/00 |
| Copper, Leachable | 0.086 | 0.030 | mg/L | 02/17/00 |
| Copper, Solid | 450 | 0.20 | mg/kg | 02/15/00 |
| Lead, Solid | 1700 | 1.0 | mg/kg | 02/15/00 |
| Metals Digestion for 6010B, Leachate | Completed | • • | · | 02/14/00 |
| Metals Digestion for 6010B, Solid | Completed | | , | 02/11/00 |
| Tin, Leachable | 0.028 | 0.020 | mg/L | 02/17/00 |
| EP Toxicity Leaching Procedure | Completed | • | | 02/11/00 |
| Volatile Organic Compounds, Solid | | | | |
| Trichloroethylene | 170 | 10 | ug/kg | 02/16/00 |

1130102

MACDERMID, INC.

Location Collected: 526 Huntingdon Avenue, Waterbury, CT

Date Sample Collected: 02/09/00

Sample Description: B004 Solder Strip

EAS Project Number: 00020124
EAS Sample Number: 00020124-04
Date Sample Received: 02/09/00
Client Project Number: MAC0028.RC

| | | Detection | ^ . | Analysis |
|--------------------------------------|-----------|-----------|-------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | BDL | 0.010 | mg/L | 02/17/00 |
| Cadmium, Solid | 5.3 | 0.10 | mg/kg | 02/15/00 |
| Chromium, Leachable | BDL | 0.040 | mg/L | 02/17/00 |
| Copper, Leachable | 0.12 | 0.030 | mg/L | 02/17/00 |
| Copper, Solid | 88 | 0.20 | mg/kg | 02/15/00 |
| Lead, Solid | 42 | 1.0 | mg/kg | 02/15/00 |
| Metals Digestion for 6010B, Leachate | Completed | | | 02/14/00 |
| Metals Digestion for 6010B, Solid | Completed | | | 02/11/00 |
| Tin, Leachable | BDL | 0.020 | mg/L | 02/17/00 |
| EP Toxicity Leaching Procedure | Completed | | | 02/11/00 |
| Volatile Organic Compounds, Solid | | | | |
| 1 ! | BDL | 10. | ug/kg | 02/18/00 |

SURFACE SOIL

MACDERMID, INC.

Location Collected: 526 Huntingdon Avenue, Waterbury, CT

Date Sample Collected: 02/09/00

Sample Description: B005 Solder Strip

EAS Project Number: 00020124 EAS Sample Number: 00020124-05 Date Sample Received: 02/09/00 Client Project Number: MAC0028.RC

| | • | Detection | ; | Analysis |
|--------------------------------------|-----------|-----------|-------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | 0.084 | 0.010 | mg/L | 02/17/00 |
| Cadmium, Solid | 7.6 | 0.10 | mg/kg | 02/15/00 |
| Chromium, Leachable | 0.94 | 0.040 | mg/L | 02/17/00 |
| Copper, Leachable | 14 | 0.030 | mg/L | 02/17/00 |
| Copper, Solid | 1400 | 0.20 | mg/kg | 02/15/00 |
| Lead, Solid | 580 | 1.0 | mg/kg | 02/15/00 |
| Metals Digestion for 6010B, Leachate | Completed | • | | 02/14/00 |
| Metals Digestion for 6010B, Solid | Completed | • | | 02/11/00 |
| Tin, Leachable | 19 | 0.020 | mg/L | 02/17/00 |
| EP Toxicity Leaching Procedure | Completed | | • | 02/11/00 |
| Volatile Organic Compounds, Solid | | • . | | |
| Trichloroethylene | 46 | 10 | ug/kg | 02/15/00 |

Location Collected: 526 Huntingdon Avenue, Waterbury, CT

Date Sample Collected: 02/09/00

Sample Description: B006 Solder Strip

EAS Project Number: 00020124

EAS Sample Number: 00020124-06 Date Sample Received 02/09/00

| | .* | Detection | | Analysis |
|--------------------------------------|-----------|-----------|--------|-------------|
| Parameter | Data | Limit | Units | <u>Date</u> |
| Cadmium, Leachable | BDL | 0.010 | mg/L | 02/17/00 |
| Cadmium, Solid | 5.8 | 0.10 | m≀g/kg | 02/15/00 |
| Chromium, Leachable | BDL | 0.040 | mg/L | 02/17/00 |
| Copper, Leachable | 0.64 | 0.030 | mg/L | 02/17/00 |
| Copper, Solid | 370 | 0.20 | mg/kg | 02/15/00 |
| Lead, Solid | 96 | 1.0 | mg/kg | 02/15/00 |
| Metals Digestion for 6010B, Leachate | Completed | | : | 02/14/00 |
| Metals Digestion for 6010B, Solid | Completed | | : | 02/11/00 |
| Tin, Leachable | 0.24 | 0.020 | mg/L | 02/17/00 |
| EP Toxicity Leaching Procedure | Completed | • | • | 02/11/00 |
| Volatile Organic Compounds, Solid | | | • | : |
| Trichloroethylene | BDL | 10 | ug/kg | 02/18/00 |

Location Collected: 526 Huntingdon Avenue, Waterbury, CT

Date Sample Collected: 02/09/00

Iday Stain

Sample Description: B007 Solder Strip

EAS Project Number: 00020124 EAS Sample Number: 00020124-07 Date Sample Received: 02/09/00 Client Project Number: MAC0028.RC

| | | Detection | | Analysis |
|--------------------------------------|-----------|-----------|-------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | BDL | 0.010 | mg/L | 02/17/00 |
| Cadmium, Solid | 5.2 | 0.10 | mg/kg | 02/15/00 |
| Chromium, Leachable | 0.07 | 0.040 | mg/L | 02/17/00 |
| Copper, Leachable | 0.92 | 0.030 | mg/L | 02/17/00 |
| Copper, Solid | 2100 | 0.20 | mg/kg | 02/15/00 |
| Lead, Solid | 24 | 1.0 | mg/kg | 02/15/00 |
| Metals Digestion for 6010B, Leachate | Completed | | • | 02/14/00 |
| Metals Digestion for 6010B, Solid | Completed | . • | | 02/11/00 |
| Tin, Leachable | 0.58 | 0.020 | mg/L | 02/17/00 |
| EP Toxicity Leaching Procedure | Completed | • | | 02/11/00 |
| Volatile Organic Compounds, Solid | • | | | |
| Trichloroethylene | BDL | 10 | nā\ķā | 02/18/00 |

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MACDERMID, INC.

Location Collected: 526 Huntingdon Avenue, Waterbury, CT

◯ Date Sample Collected: 02/09/00

Sample Description: B007 Solder Strip

EAS Project Number: 00020124 EAS Sample Number: 00020124-07 Date Sample Received 02/09/00

| • | | • | ľ |
|----------------|--------|--------|------|
| Client Project | Number | MAC002 | 8.RC |
| | | | |

| | | Detection | | Analysis |
|--------------------------------------|-----------|-----------|-------|-------------|
| Parameter | Data | Limit | Units | <u>Date</u> |
| Cadmium, Leachable | BDL | 0.010 | mg/L | 02/17/00 |
| Cadmium, Solid | 5.2 | 0.10 | mg/kg | 02/15/00 |
| Chromium, Leachable | 0.07 | 0.040 | mg/L | 02/17/00 |
| Copper, Leachable | 0.92 | 0.030 | mg/L | 02/17/00 |
| Copper, Solid | 2100 | 0.20 | mg/kg | 02/15/00 |
| Lead, Solid | 24 | 1.0 | mg/kg | 02/15/00 |
| Metals Digestion for 6010B, Leachate | Completed | | | 02/14/00 |
| Metals Digestion for 6010B, Solid | Completed | . • | | 02/11/00 |
| Tin, Leachable | 0.58 | 0.020 | mg/L | 02/17/00 |
| EP Toxicity Leaching Procedure | Completed | - | | 02/11/00 |
| Volatile Organic Compounds, Solid | • | | | |
| Trichloroethylene | BDL | 10 | ug/kg | 02/18/00 |

Location Collected: 526 Huntingdom Avenue, Waterbury, CT

Date Sample Collected, 02/09/00

Sample Description: CC008 Flam Stor

EAS Project Number: 00020124 |
EAS Sample Number: 00020124 |
Date Sample Received: 02/09/00 |
Client Project Number: MAC0028.RC

| į. | <u> </u> | | | Detection | | Analysis |
|------------------------|----------|-------|-----------|-----------|-------|----------|
| Parameter | | | Data | Limit | Units | Date |
| TCLP for Volatile Orga | nic Comp | ounds | Completed | | | 02/15/00 |
| TCLP Volatile List | ! | | | · | | |
| Tetrachloroethene | ; ; | | 11 | 10 | ug/L | 02/16/00 |
| Trichloroethene | | | BDL | 10 | ug/L | 02/16/00 |

Location Collected: 526 Huntingdon Avenue, Waterbury, CT

Date Sample Collected: 02/09/00

Sample Description: CC009 Flam Stor

EAS Project Number: 00020124 EAS Sample Number: 00020124-09 Date Sample Received: 02/09/00

| | : | | | Detecti | on | | Analysis |
|------------------------|-----------|-------|-----------|---------|--|-------|----------|
| Parameter | <u> </u> | | Data | Limit | <u>; </u> | Units | Date |
| Cadmium, Leachable | | | BDL | 0.010 | • | mg/L | 02/17/00 |
| Metals Digestion for 6 | 010B, Lea | chate | Completed | | | | 02/14/00 |
| EP Toxicity Leaching | Procedure | • | Completed | | • | | 02/11/00 |

Location Collected: 526 Huntington Avenue, Waterbury, CT.

Date Sample Collected: 02/09/00

Sample Description: B010 Solder Strip

EAS Project Number: 00020124 EAS Sample Number: 00020124-10 Date Sample Received: 02/09/00 Client Project Number: MAC0028.RC

| | • | Detection | 1. | . : | Analysis |
|--------------------------------------|------------|--------------|----------|-------|-------------|
| Parameter | Data | <u>Limit</u> | <u>:</u> | Units | <u>Date</u> |
| Cadmium, Leachable | 0.029 | 0.010 | | mg/L | 02/17/00 |
| Cadmium, Solid | <i>7</i> 5 | 0.10 | : | mg/kg | 02/15/00 |
| Metals Digestion for 6010B, Leachate | Completed | į | : | | 02/14/00 |
| Metals Digestion for 6010B, Solid | Completed | | : | | 02/11/00 |
| Nickel, Solid | 420 | 0.40 | | mg/kg | 02/15/00 |
| EP Toxicity Leaching Procedure | Completed | | | | 02/11/00 |

Location Collected: 526 Huntingdon Avenue, Waterbury, CT

Date Sample Collected: 02/09/00

Sample Description: B011 Solder Strip

EAS Project Number: 00020124

EAS Sample Number: 00020124-11

Date Sample Received: 02/09/00

| | | Detection | | Analysis |
|--------------------------------------|-----------|-----------|-------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | 0.028 | 0.010 | mg/L | 02/17/00 |
| Cadmium, Solid | 85 | 0.10 | mg/kg | 02/17/00 |
| Metals Digestion for 6010B, Leachate | Completed | 1 | , | 02/14/00 |
| Metals Digestion for 6010B, Solid | Completed | 1 | | 02/11/00 |
| Nickel, Solid | 400 | 0.40 | mg/kg | 02/15/00 |
| EP Toxicity Leaching Procedure | Completed | i | | 02/11/00 |

Location Collected: 525 Huntingdon Avenue, Waterbury, CT

Date Sample Collected: 02/09/00

Sample Description: B012 Solder Strip

EAS Project Number: 00020124 EAS Sample Number: 00020124-12 Date Sample Received: 02/09/00

| | • | Detection | | Analysis |
|--------------------------------------|-----------|-----------|-------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | 0.18 | . 0.010 | mg/L | 02/17/00 |
| Cadmium, Solid | 110 | 0.10 | mg/kg | 02/17/00 |
| Metals Digestion for 6010B, Leachate | Completed | | • | 02/14/00 |
| Metals Digestion for 6010B, Solid | Completed | | • | 02/11/00 |
| Nickel, Solid | 450 | 0.40 | mg/kg | 02/15/00 |
| EP Toxicity Leaching Procedure | Completed | | | 02/11/00 |

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MACDERMID, INC.

Location Collected: 526 Huntingdon Avenue, Waterbury, CT

Date Sample Collected: 02/09/00 Sample Description: Trip Blank EAS Project Number: 00020124 EAS Sample Number: 00020124-13 Date Sample Received: 02/09/00 Client Project Number: MAC0028.RC

| | | | Detection | | Analysis | |
|--------------------------------|-------|-----------|-----------|-------|----------|--|
| Parameter | : | Data | Limit | Units | Date | |
| Cadmium, Water | | BDL | 0.010 | mg/L | 02/18/00 | |
| Chromium, Water | • | BDL | 0.040 | mg/L | 02/18/00 | |
| Copper, Water | | BDL | 0.030 | mg/L | 02/18/00 | |
| Lead, Water | | BDL | 0.050 | mg/L | 02/18/00 | |
| Metals Digestion for 200.7, Wa | ater | Completed | | | 02/17/00 | |
| Nickel, Water | | BDL | 0.020 | mg/L | 02/18/00 | |
| Tin, Water | | BDL | 0.010 | mg/L | 02/18/00 | |
| Zinc, Water | | 0.023 | 0.010 | mg/L | 02/18/00 | |
| Volatile Organic Compounds, | Water | | i | , | | |
| Tetrachloroethylene | | BDL | 0.50 | ug/L | 02/15/00 | |
| Trichloroethylene | | BDL | 0.50 | ug/L | 02/15/00 | |

P.15

MACDERMID, INC.

Location Collected: 526 Huntingdon Avenue, Waterbury, CT

Date Sample Collectedt 02/09/00

Sample Description: Equipment Blank

EAS Project Number: 00020124

EAS Sample Number: 00020124-14 Date Sample Received: 02/09/00

| | | Detection | | Analysis |
|-----------------------------------|-----------|-----------|-------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Water | BDL | 0.010 | mg/L | 02/18/00 |
| Chromium, Water | BDL | 0.040 | mg/L | 02/18/00 |
| Copper, Water | BDL | 0.030 | mg/L | 02/18/00 |
| Lead, Water | BDL | 0.050 | mg/L | 02/18/00 |
| Metals Digestion for 200.7. Water | Completed | • | | 02/17/00 |
| Nickel, Water | BDL | 0.020 | mg/L | 02/18/00 |
| Tin, Water | BDL | 0.010 | mg/L | 02)18/00 |
| Zinc, Water | 0.018 | 0.010 | mg/L | 02/18/00 |
| Volatile Organic Compounds, Water | | • | | : |
| Tetrachloroethylene | BDL | 0.50 | ug/L | 02/15/00 |
| Trichloroethylene | BDL | 0.50 | ug/L | 02/15/00 |



FACSIMILE COVER PAGE

| Date: | ret | oruary 2. | 2, 2000 | : | | | | | | | | • | | |
|--|--|---|---|-------------------------------|----------|---------------------------------------|-------------------------------------|---------------------------------|-------------------|-------------------|----------------------|--------|---------------------|-------------------|
| To: | Mil | ke C. | ; ; | | | * | | | | | i • | | | |
| Firm: | HR | : JP | · | | | | | • | | , . | : ! | | | |
| Fax Num | ber: 860 | 793-687 | 1 | • | | | | | | • | : | • | - | |
| From: | Har | y Mulli | 1 1 | | | | · | | | : | | | | |
| Total num | · | | | nclud NO | ling co | over sh | eet): | | | | : ! ! | | | |
| Message: | | | ; | : : | : | _ | | | İ | | | : | | |
| Reports. | | | | : | | | | | : | • | | | | |
| Thank yo Harry | ų · | • • • | | : | | | | | | : | | ; | | |
| : | | | | } | | | ; | | | | | | | : |
| | | | | | | | | | | | | : | | |
| ***** | | ******* | ********** | : ! !AGE##### | *** | | ****** | ,,,,,, ,,, | | ***** | 27422779 | | 4**** | 14 |
| This message is privileged, con employee or a distribution, or by telephone (c | fidential and year respon copying of | exempt fro sible for de this commun | m disclosure livering the ucation is pr | under : messag ohlbited | e to the | e law. If i intended have recel | the reade recipien ved this o | a of this t, you u commun | messag re here | e is no by not | the intentified that | ded re | ciplent Iissemin | or the 12tian, |

MACDERMID, INC.

Location Collected: 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 01/13/00 Sample Description: 014 NMP 2 EAS Project Number: 00020096 EAS Sample Number: 00020096-02 Date Sample Received: 02/08/00 Client Project Number: MAC0028.RC

| | | | Detection | • | Analysis |
|--------------------------------------|---|-------------|-----------|-------|----------|
| Parameter | | <u>Data</u> | Limit | Units | Date |
| Chromium, Leachable | ; | 0.70 | 0.020 | mg/L | 02/10/00 |
| Metals Digestion for 6010B, Leachate | | Completed | | | 02/09/00 |
| Zinc, Leachable | ! | 0.016 | 0.0050 | mg/L | 02/10/00 |
| EP Toxicity Leaching Procedure | | Completed | | | 02/08/00 |

MACDERMID, INC.

Location Collected: 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 01/13/00 Sample Description: 013 NMP 1 EAS Project Number: 00020096 EAS Sample Number: 00020096-01 Date Sample Received: 02/08/00 Client Project Number: MAC0028.RC

| · | | | | Detection | ! | Analysis |
|------------------|-----------------|------|-----------|-----------|----------|----------|
| Parameter | | : | Data | Llimit | Units | Date . |
| Chromium, Lead | hable | | 0.75 | 0.020 | mg/L | 02/10/00 |
| Copper, Leachab | le | | BDL | 0.010 | mg/L | 02/10/00 |
| Lead, Leachable | | ! | BDL | 0.050 | mg/L | 02/10/00 |
| Metals Digestion | for 6010B, Lead | hate | Completed | | | 02/09/00 |
| Zinc, Leachable | | | 0.02 | 0.0050 | mg/L | 02/10/00 |
| EP Toxicity Lead | hing Procedure | | Completed | | • | 02/08/00 |

MACDERMID, INC.

Location Collected: 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 01/13/00 Sample Description: 003 Solder St. 1 EAS Project Number: 00020096 EAS Sample Number: 00020096-03 Date Sample Received: 02/08/00

| | | Detection | | Analysis |
|--------------------------------------|-----------|-----------|-------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | 0.025 | 0.0050 | mg/L | 02/10/00 |
| Cadmium, Solid | 15 | 0.10 | mg/kg | 02/10/00 |
| Metals Digestion for 6010B, Leachate | Completed | | | 02/09/00 |
| Metals Digestion for 60 10B, Solid | Completed | | | 02/08/00 |
| Nickel, Solid | 72 | 0.40 | mg/kg | 02/10/00 |
| EP Toxicity Leaching Procedure | Completed | | | 02/08/00 |

HRP Associates, Inc. 167 New Britain Avenue Plainville, CT 06062

HRP

of Z Sheet

Phone: 860-793-6899

CHAIN OF CUSTODY

Job Number

| 526 1 | -lu-TI-GDO | ~ AVE | NVE | , WAT | ERBURY. | CI | | | 1 4 6 | lut | } |
|--|--|---------------------------------------|-----------------|---|-------------------------------|---------------------------------|---------------------|------------------------------------|---------------------------------------|--------|--------------|
| Sample I.D. | Sample Location | Container Type | Total Volume | .Р | reservative | Date | Time | Sam | ple Matrix | R | emarks |
| B001 | SOLDER STRIP. | GLASS | 802 | (| COBL | 24/00 | 11 Am | 5011 | | SURTI | AL E |
| B 002 | | | <u> </u> | | | | 11/5 | | | 12. | |
| B003 | | | | | | | 1130 | | | SURF | ALĒ |
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| Bool | | | | | | | 1 Pm | | · · | ,, | |
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| CC 008 | FLAM STUR | GLASS | | | | 1 | 230 ps | CONCR | ETE | From o | 05 [1] |
| CC 009 | FLAN STOR | GLA45 | 4 | <u> </u> | + | 4 | 245 p | ,, | | From | 107 [1 |
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| Relinquished I | By (Signature) | 2x1 | S. | | Receive | ed By (Signature | 1 | n | Date 4/9 | a T | ime/00 |
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| | | - A | | C | | <u> </u> | | | _ | | |
| Name & Addr | ress of Laboratory: | CAS | | Comn | ner cial | 27. | MIDDL | EBURY, | CT | | |
| Name & Addr Paramet | | (173 | | COMM | ner cial | >T. Samp | | EBURY, | 4 | | |
| ~ | | | | UP Z | rercial Buos | | | BURY, | B067 | Boog | Bao |
| | iers | | 001 B | | | Samp | ole ID | | | Bog | Bao |
| Paramet | ers LEMMAZ | B γ | 001 B | NB 5 | 8103 | Samp BCo ¹ / | ile ID Bous | Buol | 8007 | Bog | Bao |
| Paramet | LEMANT SOLID | B X | 001 B | vo L Y | B103 | Samp PLCo ¹ / | rous X | Bvol X | B007 X | Boog | |
| Paramete CADMIUM, CADMIUM, | LEMMAT SOLID LEACHAE | B X X | DO1 B | yol Y | д103 Х | Samp FCo ¹ / X | Rous X | BVOG X | B007 X | Boog | |
| Paramet CADMIUM, CADMIUM, CHOMIUM, COPPER, So | LEACHAE | B 7x x x | 001 B | νε | 7 X | Samp BCo ¹ / X X | Rous X X | BUDG X A | B007 X | Book | Boo |
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| Paramete CADMIUM, CADMIUM, CADMIUM, CADMIUM, CADMIUM, CAPPER, SO LEAD, SO LIN, LEAR | LEACHAE LID HAJE | B γ γ γ γ γ γ γ γ γ | 001 B | νο \ \(\times \) \(\times \) | 7 X X X X | Samp RUO' X X X X | ROUS X X X | BUDG X A A | 8067 X X X Y | Boog | |
| Paramete CADMIUM, CADMIUM, CADMIUM, CAPPER, SO LEAD, SO (IN, LEAD TRICHLUZO | LEACHAE LID LID HAIE FINGE E - Mass | B γ γ γ γ γ γ γ γ γ | 001 B | νο Σ | 8103 X X X X X | Samp RUO' X X X X X | Rous X X X X X | BIDG X 1 X X X X | 8067 X X X Y | | |
| Paramete CADMILMA, ADMILMA, CADMILMA, CAPPER, SO LEAD, SO LIN, LEAD TRICHLUZU NOCKEL | LEACHAE LID LID HAIE FINGE E - Mass | B γ γ γ γ γ γ γ γ γ | 001 B | νο Σ | 8103 X X X X X | Samp RUO' X X X X X | Rous X X X X X | BIDG X 1 X X X X | 8067 X X X Y | | |
| Paramete CADMIUM, CADMIUM, CADMIUM, CADMIUM, CADMIUM, CAPPER, SO LEAD, SO LIN, LEAR | LEACHAE LID HAIE FINGE E - MASSISOLID ATE | B γ γ γ γ γ γ γ γ γ | 001 B | νο Σ | 8103 X X X X X | Samp RUO' X X X X X | Rous X X X X X | BIDG X 1 X X X X | 8067 X X X Y | | |
| Paramete CADMIUM, CADMIUM, CADMIUM, CADMIUM, CADMIUM, CAPPER, SO LEAD, SO (IN, LEAD MICHELLA MICHELLA LEAD LEACH CAME, LEACH CAME, LEACH | LEACHAE LID LID HA)E FINNE E - MASS (SOLID ATE | B X X X S Punt. X | 001 B | νο Σ | 8103 X X X X X | Samp RUO' X X X X X | Rous X X X X X | BIDG X 1 X X X X | 8067 X X X Y | | |
| Paramete CADMIUM, CADMIUM, CADMIUM, CADMIUM, CADMIUM, CAPPER, SO LEAD, LEACH CAMERICAL LEACHICK LEACHAE LID HAIE FINGE E - MASSISOLID ATE | B X X X S Bugs. X | 001 B | νο Σ | 8103 X X X X X | Samp RUO' X X X X X | Rous X X X X X | BIDG X 1 X X X X | 8067 X X X Y | | |

A - Amber T - TCLP Analysis M - Mass Analysis S - SPLP Analysis gyrhNorms\chain2.rhi: White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File Nº 11235

HPP CONTACT: MIKE CHENONETH

P - Plastic

HRP Associates, Inc. 167 New Britain Avenue Plainville, CT 06062

Phone: 860-793-6899 Fax: 860-793-6871

HRP.

CHAIN OF CUSTODY

Sheet Z of Z

MAC WZ8.RC Job Number

Project Manager

RDM

| | Sample | Location | Container Type | Total Volume | Pr | eservative | Date | Time | Sam | ole Matrix | | emarks |
|----------------|--|-------------------|--|-----------------|---------------|----------------|--|-----------------|-------------|---------------|-------------|-------------|
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APPENDIX G

April 26-28, 2000 Sampling Results

e\rdm\m\rcra closure summary

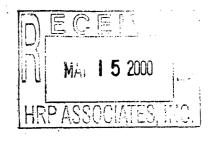
Associates Inc



May 11, 2000

MACDERMID, INC. 245 Freight Street Waterbury, CT 06702

Attention: Mr. Greg Strong



EAS Project Number: 00040396

Location Collected: MacDermid, Inc., 526 Huntingdon Ave, Waterbury, CT

Copies of this report and the supporting computer stored data are retained in our files in the event they are required for future reference.

Any sample submitted to our laboratory will be retained for a maximum of thirty (30) days from receipt of the report.

All analytical data, unless otherwise specified, is reported on a wet weight (as received) basis.

Our laboratory is a multi-state Certified Public Health Laboratory, offering a full range of analytical services that include:

Water and Wastewater Analysis Hazardous Waste Analysis (RCRA) Full Priority Pollutant Analysis Drinking Water Analysis

Laboratory Director

encl.

Location Collected: MacDermid, Inc., 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 04/26/00

Sample Description: CC010/Flam. Storage

EAS Sample Number: 00040396-01

LIMS ID Number: AB04902 Date Sample Received: 04/28/00 Client Project Number: MAC0028.RC

| | | Analysis | | |
|---|--------|----------|-------|----------|
| Parameter | Data | Limit | Units | Date |
| TCLP for Volatile Organic Compounds Volatile Organic Compounds, Leachable | Comple | ted | | 05/01/00 |
| Tetrachloroethylene | 2.2 | 0.50 | ug/L | 05/10/00 |

Location Collected: MacDermid, Inc., 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 01/13/00 Sample Description: 001/NMP 1 EAS Sample Number: 00040396-02

LIMS ID Number: AB04903 Date Sample Received: 04/28/00

| | | Detection | | Analysis |
|---|-----------------|-----------|-------|----------------------|
| Parameter | Data | Limit | Units | Date |
| Chromium, Leachable EP Toxicity Leaching Procedure | BDL Complete | 0.02 d | mg/L | 05/08/00 05/03/00 |

Location Collected: MacDermid, Inc., 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 01/13/00 Sample Description: 002/NMP 2 EAS Sample Number: 00040396-03

LIMS ID Number: AB04904 Date Sample Received: 04/28/00 Client Project Number: MAC0028.RC

| | | Detection | | Analysis |
|--------------------------------|-----------|-----------|--------------|----------|
| Parameter | Data | Limit | <u>Units</u> | Date |
| Chromium, Leachable | BDL | 0.02 | mg/L | 05/08/00 |
| EP Toxicity Leaching Procedure | Completed | i · | | 05/03/00 |

Location Collected: MacDermid, Inc., 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 04/28/00

Sample Description: B007A/Solder Strip EAS Sample Number: 00040396-04

LIMS ID Number: AB04905 Date Sample Received: 04/28/00

| | | Detection | | Analysis |
|--------------------------------|-----------|-----------|-------|----------|
| Parameter | Data | Limit | Units | Date |
| Chromium, Leachable | 0.028 | 0.02 | mg/L | 05/08/00 |
| EP Toxicity Leaching Procedure | Completed | | | 05/03/00 |

Location Collected: MacDermid, Inc., 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 04/27/00

Sample Description: B013A/Solder Strip

EAS Sample Number: 00040396-05

LIMS ID Number: AB04906 Date Sample Received: 04/28/00

| | | Detection | | Analysis |
|---------------------------------------|-----------|-----------|-------------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | 0.0074 | 0.005 | mg/L | 05/08/00 |
| Cadmium, Solid | 13 | 0.10 | mg/kg | 05/05/00 |
| Chromium, Leachable | BDL | 0.02 | ${ m mg/L}$ | 05/08/00 |
| Copper, Solid | 99 | 0.20 | mg/kg | 05/05/00 |
| Lead, Solid | 48 | 1.0 | mg/kg | 05/05/00 |
| Tin, Leachable | BDL | 0.01 | ${ m mg/L}$ | 05/08/00 |
| EP Toxicity Leaching Procedure | Completed | | | 05/03/00 |
| TCLP for Volatile Organic Compounds | Completed | | | 05/01/00 |
| Volatile Organic Compounds, Leachable | , | | | • |
| Trichloroethylene | 0.70 | 0.50 | ug/L | 05/10/00 |

Location Collected: MacDermid, Inc., 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 04/27/00

Sample Description: B013B/Solder Strip EAS Sample Number: 00040396-06

LIMS ID Number: AB04907 Date Sample Received: 04/28/00

| • | | Detection | | Analysis |
|---------------------------------------|----------------|-----------|-------------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | 0.0061 | 0.005 | mg/L | 05/08/00 |
| Cadmium, Solid | 13 | 0.10 | mg/kg | 05/05/00 |
| Chromium, Leachable | BDL | 0.02 | ${	t mg/L}$ | 05/08/00 |
| Copper, Solid | 86 | 0.20 | mg/kg | 05/05/00 |
| Lead, Solid | 51 | 1.0 | mg/kg | 05/05/00 |
| Tin, Leachable | 0.027 | 0.01 | ${ m mg/L}$ | 05/08/00 |
| EP Toxicity Leaching Procedure | Completed | | | 05/03/00 |
| TCLP for Volatile Organic Compounds | Completed | • | | 05/01/00 |
| Volatile Organic Compounds, Leachable | • | | | |
| Trichloroethylene | 1.7 | 0.50 | ug/L | 05/09/00 |
| Tetrachloroethylene | \mathtt{BDL} | 0.50 | ug/L | 05/09/00 |

Location Collected: MacDermid, Inc., 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 04/27/00

Sample Description: B014A/Solder Strip

EAS Sample Number: 00040396-07

LIMS ID Number: AB04908 Date Sample Received: 04/28/00

| | | Detection | | Analysis |
|---------------------------------------|----------------|-----------|-------------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | 0.0075 | 0.005 | mg/L | 05/08/00 |
| Cadmium, Solid | 8.2 | 0.10 | mg/kg | 05/05/00 |
| Chromium, Leachable | \mathtt{BDL} | 0.02 | ${ m mg/L}$ | 05/08/00 |
| Copper, Solid | 72 | 0.20 | mg/kg | 05/05/00 |
| Lead, Solid | 40 | 1.0 | mg/kg | 05/05/00 |
| Tin, Leachable | BDL | 0.01 | mg/L | 05/08/00 |
| EP Toxicity Leaching Procedure | Completed | | | 05/03/00 |
| TCLP for Volatile Organic Compounds | Completed | • | | 05/01/00 |
| Volatile Organic Compounds, Leachable | | • | | |
| Trichloroethylene | 5.2 | 0.50 | ug/L | 05/10/00 |

Location Collected: MacDermid, Inc., 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 04/27/00

Sample Description: B014B/Solder Strip EAS Sample Number: 00040396-08

LIMS ID Number: AB04909 Date Sample Received: 04/28/00 Client Project Number: MAC0028.RC

| | | Detection | | Analysis |
|---------------------------------------|----------------|-----------|-------------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | 0.0067 | 0.005 | mg/L | 05/08/00 |
| Cadmium, Solid | 21 | 0.10 | mg/kg | 05/05/00 |
| Chromium, Leachable | BDL | 0.020 | mg/L | 05/02/00 |
| Copper, Solid | 150 | 0.20 | mg/kg | 05/05/00 |
| Lead, Solid | 60 | 1.0 | mg/kg | 05/05/00 |
| Tin, Leachable | BDL | 0.01 | ${ m mg/L}$ | 05/08/00 |
| EP Toxicity Leaching Procedure | Completed | • | | 05/03/00 |
| TCLP for Volatile Organic Compounds | Completed | | | 05/02/00 |
| Volatile Organic Compounds, Leachable | | | | |
| Trichloroethylene | 5.5 | 0.50 | ug/L | 05/09/00 |
| Tetrachloroethylene | \mathtt{BDL} | 0.50 | ug/L | 05/09/00 |

Location Collected: MacDermid, Inc., 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 04/27/00

Sample Description: B015A/Solder Strip EAS Sample Number: 00040396-09

LIMS ID Number: AB04910 Date Sample Received: 04/28/00 Client Project Number: MAC0028.RC

| | | Detection | | Analysis |
|---------------------------------------|----------------|-----------|-------------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | 0.006 | 0.005 | mg/L | 05/08/00 |
| Cadmium, Solid | 15 | 0.10 | mg/kg | 05/05/00 |
| Chromium, Leachable | \mathtt{BDL} | 0.02 | ${ m mg/L}$ | 05/08/00 |
| Copper, Solid | 560 | 0.20 | mg/kg | 05/05/00 |
| Lead, Solid | 61 | 1.0 | mg/kg | 05/05/00 |
| Tin, Leachable | 0.10 | 0.01 | mg/L | 05/08/00 |
| EP Toxicity Leaching Procedure | Completed | | | 05/03/00 |
| TCLP for Volatile Organic Compounds | Completed | | , | 05/02/00 |
| Volatile Organic Compounds, Leachable | | | | |
| Trichloroethylene | 18 | 0.50 | ug/L | 05/09/00 |
| Tetrachloroethylene | BDL | 0.50 | ug/L | 05/09/00 |

Location Collected: MacDermid, Inc., 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 04/27/00

Sample Description: B015B/Solder Strip EAS Sample Number: 00040396-10

LIMS ID Number: AB04911 Date Sample Received: 04/28/00 Client Project Number: MAC0028.RC

| | | Detection | | Analysis |
|---------------------------------------|----------------|-----------|-------------|-------------|
| Parameter | Data | Limit | Units | <u>Date</u> |
| Cadmium, Leachable | 0.0067 | 0.005 | mg/L | 05/08/00 |
| Cadmium, Solid | 16 | 0.10 | mg/kg | 05/05/00 |
| Chromium, Leachable | \mathtt{BDL} | 0.02 | ${ m mg/L}$ | 05/08/00 |
| Copper, Solid | 380 | 0.20 | mg/kg | 05/05/00 |
| Lead, Solid | 83 | 1.0 | mg/kg | 05/05/00 |
| Tin, Leachable | BDL | 0.01 | ${ m mg/L}$ | 05/08/00 |
| EP Toxicity Leaching Procedure | Completed | • | | 05/03/00 |
| TCLP for Volatile Organic Compounds | Completed | | | 05/02/00 |
| Volatile Organic Compounds, Leachable | | | | |
| Trichloroethylene | 18 | 0.50 | ug/L | 05/09/00 |
| Tetrachloroethylene | BDL | 0.50 | ug/L | 05/09/00 |

Location Collected: MacDermid, Inc., 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 04/27/00

Sample Description: B016A/Solder Strip EAS Sample Number: 00040396-11

LIMS ID Number: AB04912 Date Sample Received: 04/28/00 Client Project Number: MAC0028.RC

| | | Detection | | Analysis |
|---------------------------------------|----------------|-----------|-------------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | 0.0054 | 0.005 | mg/L | 05/08/00 |
| Cadmium, Solid | 18 | 0.10 | mg/kg | 05/05/00 |
| Chromium, Leachable | BDL | 0.02 | mg/L | 05/08/00 |
| Copper, Solid | 210 | 0.20 | mg/kg | 05/05/00 |
| Lead, Solid | 220 | 1.0 | mg/kg | 05/05/00 |
| Tin, Leachable | 0.015 | 0.01 | ${ m mg/L}$ | 05/08/00 |
| EP Toxicity Leaching Procedure | Completed | | | 05/03/00 |
| TCLP for Volatile Organic Compounds | Completed | | | 05/04/00 |
| Volatile Organic Compounds, Leachable | | | | |
| Trichloroethylene | 39 | 0.50 | ug/L | 05/09/00 |
| Tetrachloroethylene | \mathtt{BDL} | 0.50 | ug/L | 05/09/00 |

Location Collected: MacDermid, Inc., 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 04/27/00

Sample Description: B016B/Solder Strip EAS Sample Number: 00040396-12

LIMS ID Number: AB04913 Date Sample Received: 04/28/00 Client Project Number: MAC0028.RC

| | • | Analysis | | |
|---------------------------------------|----------------|----------|-------------|----------|
| Parameter | <u>Data</u> | Limit | Units | Date |
| Cadmium, Leachable | 0.015 | 0.005 | mg/L | 05/08/00 |
| Cadmium, Solid | 14 | 0.10 | mg/kg | 05/05/00 |
| Chromium, Leachable | \mathtt{BDL} | 0.02 | ${ m mg/L}$ | 05/08/00 |
| Copper, Solid | 110 | 0.20 | mg/kg | 05/05/00 |
| Lead, Solid | 95 | 1.0 | mg/kg | 05/05/00 |
| Tin, Leachable | 0.018 | 0.01 | ${ m mg/L}$ | 05/08/00 |
| EP Toxicity Leaching Procedure | Completed | l , | | 05/03/00 |
| TCLP for Volatile Organic Compounds | Completed | Į | | 05/04/00 |
| Volatile Organic Compounds, Leachable | | * | | |
| Trichloroethylene | 14 | 0.50 | ug/L | 05/09/00 |
| Tetrachloroethylene | \mathtt{BDL} | 0.50 | ug/L | 05/09/00 |

Location Collected: MacDermid, Inc., 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 04/28/00

Sample Description: B017A/Solder Strip EAS Sample Number: 00040396-13

LIMS ID Number: AB04914 Date Sample Received: 04/28/00 Client Project Number: MAC0028.RC

| | | Detection | | Analysis |
|---------------------------------------|----------------|-----------|-------------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | \mathtt{BDL} | 0.005 | mg/L | 05/08/00 |
| Cadmium, Solid | 15 | 0.10 | mg/kg | 05/05/00 |
| Chromium, Leachable | 0.033 | 0.02 | ${ m mg/L}$ | 05/08/00 |
| Copper, Solid | 210 | 0.20 | mg/kg | 05/05/00 |
| Lead, Solid | 310 | 1.0 | mg/kg | 05/05/00 |
| Tin, Leachable | \mathtt{BDL} | 0.01 | ${ m mg/L}$ | 05/08/00 |
| EP Toxicity Leaching Procedure | Completed | | | 05/03/00 |
| TCLP for Volatile Organic Compounds | Completed | | | 05/04/00 |
| Volatile Organic Compounds, Leachable | | | | |
| Trichloroethylene | 15 | 0.50 | ug/L | 05/10/00 |

Location Collected: MacDermid, Inc., 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 04/28/00

Sample Description: B017B/Solder Strip EAS Sample Number: 00040396-14

LIMS ID Number: AB04915 Date Sample Received: 04/28/00 Client Project Number: MAC0028.RC

| | | Detection | | Analysis |
|---------------------------------------|----------------|-----------|-------------|----------|
| Parameter | <u>Data</u> | Limit | Units | Date |
| Cadmium, Leachable | 0.016 | 0.005 | mg/L | 05/08/00 |
| Cadmium, Solid | 36 | 0.10 | mg/kg | 05/05/00 |
| Chromium, Leachable | \mathtt{BDL} | 0.02 | ${ m mg/L}$ | 05/08/00 |
| Copper, Solid | 470 | 0.20 | mg/kg | 05/05/00 |
| Lead, Solid | 150 | 1.0 | mg/kg | 05/05/00 |
| Tin, Leachable | 0.032 | 0.01 | ${ m mg/L}$ | 05/08/00 |
| EP Toxicity Leaching Procedure | Completed | | | 05/03/00 |
| TCLP for Volatile Organic Compounds | Completed | | | 05/04/00 |
| Volatile Organic Compounds, Leachable | • | | | |
| Trichloroethylene | 20 | 0.50 | ug/L | 05/09/00 |
| Tetrachloroethylene | BDL | 0.50 | ug/L | 05/09/00 |

Location Collected: MacDermid, Inc., 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 04/28/00

Sample Description: B018A/Solder Strip EAS Sample Number: 00040396-15

LIMS ID Number: AB04916 Date Sample Received: 04/28/00 Client Project Number: MAC0028.RC

| • | | Analysis | | |
|---------------------------------------|----------------|----------|-------------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | BDL | 0.005 | ${ m mg/L}$ | 05/08/00 |
| Cadmium, Solid | 4.3 | 0.10 | mg/kg | 05/05/00 |
| Chromium, Leachable | BDL | 0.02 | ${	t mg/L}$ | 05/08/00 |
| Copper, Solid | 43 | 0.20 | mg/kg | 05/05/00 |
| Lead, Solid | 44 | 1.0 | mg/kg | 05/05/00 |
| Tin, Leachable | BDL | 0.01 | mg/L | 05/08/00 |
| EP Toxicity Leaching Procedure | Completed | | | 05/03/00 |
| TCLP for Volatile Organic Compounds | Completed | | | 05/08/00 |
| Volatile Organic Compounds, Leachable | | | | |
| Trichloroethylene | \mathtt{BDL} | 0.50 | ug/L | 05/10/00 |

Location Collected: MacDermid, Inc., 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 04/28/00

Sample Description: B018A/Solder Strip EAS Sample Number: 00040396-15

LIMS ID Number: AB04916 Date Sample Received: 04/28/00 Client Project Number: MAC0028.RC

| • | | Analysis | | |
|---------------------------------------|----------------|----------|--------------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | BDL | 0.005 | ${ m mg/L}$ | 05/08/00 |
| Cadmium, Solid | 4.3 | 0.10 | mg/kg | 05/05/00 |
| Chromium, Leachable | \mathtt{BDL} | 0.02 | mg/L | 05/08/00 |
| Copper, Solid | 43 | 0.20 | mg/kg | 05/05/00 |
| Lead, Solid | 44 | 1.0 | ${ m mg/kg}$ | 05/05/00 |
| Tin, Leachable | BDL | 0.01 | ${\tt mg/L}$ | 05/08/00 |
| EP Toxicity Leaching Procedure | Completed | l , | | 05/03/00 |
| TCLP for Volatile Organic Compounds | Completed | ł | - | 05/08/00 |
| Volatile Organic Compounds, Leachable | | | | |
| Trichloroethylene | \mathtt{BDL} | 0.50 | ug/L | 05/10/00 |

Location Collected: MacDermid, Inc., 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 04/28/00

Sample Description: B018B/Solder Strip EAS Sample Number: 00040396-16

LIMS ID Number: AB04917 Date Sample Received: 04/28/00 Client Project Number: MAC0028.RC

| | | Analysis | | |
|---------------------------------------|-----------|----------|-------------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | 0.0083 | 0.005 | mg/L | 05/08/00 |
| Cadmium, Solid | 3.6 | 0.10 | mg/kg | 05/05/00 |
| Chromium, Leachable | 0.024 | 0.02 | ${ m mg/L}$ | 05/08/00 |
| Copper, Solid | 52 | 0.20 | mg/kg | 05/05/00 |
| Lead, Solid | 20 | 1.0 | mg/kg | 05/05/00 |
| Tin, Leachable | 0.032 | 0.01 | ${ m mg/L}$ | 05/08/00 |
| EP Toxicity Leaching Procedure | Completed | | | 05/03/00 |
| TCLP for Volatile Organic Compounds | Completed | | | 05/08/00 |
| Volatile Organic Compounds, Leachable | | | | |
| Trichloroethylene | 4.2 | 0.50 | ug/L | 05/10/00 |

Location Collected: MacDermid, Inc., 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 04/28/00

Sample Description: B018B/Solder Strip EAS Sample Number: 00040396-16

LIMS ID Number: AB04917 Date Sample Received: 04/28/00 Client Project Number: MAC0028.RC

| | | Detection | | Analysis |
|---------------------------------------|-----------|-----------|-----------------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | 0.0083 | 0.005 | ${ m mg/L}$ | 05/08/00 |
| Cadmium, Solid | 3.6 | 0,10 | mg/kg | 05/05/00 |
| Chromium, Leachable | 0.024 | 0.02 | ${\sf mg/L}$ | 05/08/00 |
| Copper, Solid | 52 | 0.20 | mg/kg | 05/05/00 |
| Lead, Solid | 20 | 1.0 | mg/kg | 05/05/00 |
| Tin, Leachable | 0.032 | 0.01 | $\mathrm{mg/L}$ | 05/08/00 |
| EP Toxicity Leaching Procedure | Completed | | | 05/03/00 |
| TCLP for Volatile Organic Compounds | Completed | | | 05/08/00 |
| Volatile Organic Compounds, Leachable | | | | |
| Trichloroethylene | 4.2 | 0.50 | ug/L | 05/10/00 |

Location Collected: MacDermid, Inc., 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 04/27/00

Sample Description: B019A/Solder Strip EAS Sample Number: 00040396-17

LIMS ID Number: AB04918 Date Sample Received: 04/28/00 Client Project Number: MAC0028.RC

| | | Detection | | Analysis |
|--------------------------------|-----------|-----------|--------------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | 0.02 | 0.005 | ${\tt mg/L}$ | 05/08/00 |
| EP Toxicity Leaching Procedure | Completed | ł | | 05/03/00 |

Location Collected: MacDermid, Inc., 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 04/27/00

Sample Description: B020A/Solder Strip EAS Sample Number: 00040396-18

LIMS ID Number: AB04919 Date Sample Received: 04/28/00

| | | Analysis | | |
|--------------------------------|----------|----------|-------------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | 0.04 | 0.005 | ${ m mg/L}$ | 05/08/00 |
| Cadmium, Solid | 83 | 0.10 | mg/kg | 05/09/00 |
| Nickel, Solid | 360 | 0.40 | mg/kg | 05/05/00 |
| EP Toxicity Leaching Procedure | Complete | d | | 05/03/00 |

Location Collected: MacDermid, Inc., 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 04/27/00

Sample Description: B021A/Solder Strip EAS Sample Number: 00040396-19

LIMS ID Number: AB04920 Date Sample Received: 04/28/00 Client Project Number: MAC0028.RC

| | • | Analysis | | |
|--------------------------------|----------|----------|-------------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | 0.37 | 0.005 | ${ m mg/L}$ | 05/08/00 |
| Cadmium, Solid | 75 | 0.10 | mg/kg | 05/09/00 |
| Nickel, Solid | 450 | 0.40 | mg/kg | 05/05/00 |
| EP Toxicity Leaching Procedure | Complete | d | | 05/03/00 |

Location Collected: MacDermid, Inc., 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 04/27/00

Sample Description: B022A/Solder Strip EAS Sample Number: 00040396-20

LIMS ID Number: AB04921 Date Sample Received: 04/28/00 Client Project Number: MAC0028.RC

| | • | Detection | 1 | Analysis |
|--------------------------------|----------|-----------|-------|-------------|
| Parameter | Data | Limit | Units | <u>Date</u> |
| Cadmium, Leachable | 0.029 | 0.005 | mg/L | 05/08/00 |
| Cadmium, Solid | 79 | 0.10 | mg/kg | 05/09/00 |
| Nickel, Solid | 320 | 0.40 | mg/kg | 05/05/00 |
| EP Toxicity Leaching Procedure | Complete | d | | 05/03/00 |

Location Collected: MacDermid, Inc., 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 04/27/00

Sample Description: B024A/Solder Strip EAS Sample Number: 00040396-21

LIMS ID Number: AB04922 Date Sample Received: 04/28/00

| | | Analysis | | |
|--------------------------------|----------|----------|-------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | 0.012 | 0.005 | mg/L | 05/08/00 |
| Cadmium, Solid | -58 | 0.10 | mg/kg | 05/09/00 |
| Nickel, Solid | 110 | 0.40 | mg/kg | 05/05/00 |
| EP Toxicity Leaching Procedure | Complete | d | | 05/03/00 |

Location Collected: MacDermid, Inc., 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 04/27/00

Sample Description: W001/Trip Blank EAS Sample Number: 00040396-22

LIMS ID Number: AB04923 Date Sample Received: 04/28/00

| · | • | Detection | | Analysis |
|-----------------------------------|----------------|-----------|-------------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Water | BDL | 0.005 | mg/L | 05/05/00 |
| Copper, Water | \mathtt{BDL} | 0.01 | mg/L | 05/05/00 |
| Lead, Water | \mathtt{BDL} | 0.05 | ${ m mg/L}$ | 05/05/00 |
| Nickel, Water | BDL | 0.02 | ${ m mg/L}$ | 05/05/00 |
| Volatile Organic Compounds, Water | | | | |
| Trichloroethylene | BDL | 0.50 | ug/L | 05/09/00 |
| Tetrachloroethylene | \mathtt{BDL} | 0.50 | ug/L | 05/09/00 |

Location Collected: MacDermid, Inc., 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 04/27/00

Sample Description: W002/Equipment Blank

EAS Sample Number: 00040396-23

LIMS ID Number: AB04924 Date Sample Received: 04/28/00 Client Project Number: MAC0028.RC

| | | Detection | 1 | Analysis |
|-----------------------------------|----------------|-----------|--------------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Water | BDL | 0.005 | mg/L | 05/05/00 |
| Copper, Water | 0.01 | 0.01 | ${ m mg/L}$ | 05/05/00 |
| Lead, Water | \mathtt{BDL} | 0.05 | ${ m mg/L}$ | 05/05/00 |
| Nickel, Water | \mathtt{BDL} | 0.02 | $_{ m mg/L}$ | 05/05/00 |
| Volatile Organic Compounds, Water | | | | |
| Trichloroethylene | BDL | 0.50 | ug/L | 05/09/00 |
| Tetrachloroethylene | \mathtt{BDL} | 0.50 | ug/L | 05/09/00 |

Location Collected: MacDermid, Inc., 526 Huntingdon Ave., Waterbury, CT

Date Sample Collected: 04/27/00

Sample Description: B023A/Solder Strip EAS Sample Number: 00040396-24

LIMS ID Number: AB05036 Date Sample Received: 05/02/00 Client Project Number: MAC0028.RC

| | | Analysis | | |
|--------------------------------|----------|----------|-------------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | 0.011 | 0.005 | ${ m mg/L}$ | 05/08/00 |
| Cadmium, Solid | 18 | 0.10 | mg/kg | 05/09/00 |
| Nickel, Solid | 130 | 0.40 | mg/kg | 05/05/00 |
| EP Toxicity Leaching Procedure | Complete | d | | 05/03/00 |

EAS Project Number: 00040396

Location Collected: MacDermid, Inc., 526 Huntingdon Ave, Waterbury, CT

EAS Certifications:

Connecticut Certified Laboratory Number: PH 0558

Massachusetts Certified Laboratory Number: M-CT020

Maine Certified Laboratory Number: CT 020

New Jersey Certified Laboratory Number: 46647

New York Certified Laboratory Number: 10916

Rhode Island Certified Number: 139

The enclosed analyses were conducted in accordance with:

- 1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
- 2. Clean Water Act, List of Approved Test Procedures, 40 CFR
- 3. EPA Test Methods for the Evaluation of solid Waste, SW-846, 3rd Edition, January 1998

HRP Associates, Inc.
167 New Britain Avenue

HRP

Sheet /

| Place & Address of (| Collection $\eta \eta$ | ar Dran | 110/12 | ر | | Sampler | s Name (Sign | ature) | | | 7 |
|---|------------------------|-------------------|-----------------|-------------|---------------|----------------|--------------|------------------|-----------------|------------------------|-----------|
| 526 HUNTINGOI | ~ AVE | WATE | LBURY | , CONNECT | ICUT | | / h | mf a | Chin | -8 | |
| Sample Samp | le Location | Container Type | Total Volume | Preservativ | re | Date | Time | Sam | ple Matrix | | Remarks |
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| BOOTA Sound | R SIRIP. | 6 | 862 | Scol | 4 | 19 N | gAm | Soil | | 2'B | ELOW |
| BOIJA SOLD | ca Steip | 6 | 807 | Cool | 4 | 27 00 | AM | Soil | | 502 | FACE . |
| | L STEIP | <u>G</u> | 802 | Cove | 4) | 27 06 | Ar | 501 | | <u> </u> | BELOW |
| | | G | 802 | COOL | 4 | 27/10 | PM | 5011 | <u> </u> | SUL | FACE |
| · | en Silip | G | 805 | COOL | 14 | 23 00 | fr | 5016 | | | SELOW |
| BOISA SUN | 2 51217 | G | 80} | cool | 19 | 7.7 00 | Pn | SOIL | | SUR | FACE |
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| Relinquished By (Sign | | | | | Received By (| | t J | · Halley | Date 4-2 | | Time /7:5 |
| | | | | | | | | | | | |
| Name & Address of L | aboratory: | EA | 3 CAB | BUFATURY | (| | TERCIAL | 55/ | MIDAL | BLAY, | CT |
| Name & Address of L | aboratory: | | | | | Sample | מו | | T | -BLAY, | |
| | aboratory: | CCO | | | | Sample | | B013 B | BOITA | BUIY B | |
| | | | | | | Sample | מו | | T | Bu 14 B | B015 A |
| Parameters | | | 10 00 | 1 601 | 800 | Sample 7A E | מו | B013 B X | T | T | |
| Parameters d, LFACHATE | | | | 1 601 | 800 | Sample 7A E | 10 S013 A | B013 B X X | BOIYA | Bu 14 B | B015 A |
| Parameters d, LEACHATE d, SOLID T, LEACHATE LU, SOLID | | | 10 00 | 1 601 | 800 | Sample 7A E | 10 S013 A | B013 B X | BOIYA | Bu 14 B Y X X | B015 A |
| Parameters d, LEACHATE d, SOLID T, LEACHATE LU, SOLID | | | 10 00 | 1 601 | 800 | Sample 7A E | 10 S013 A | B013 B X X | BOIYA | Be14 B X | B015 A |
| Parameters d, LEACHATE d, SOLID C, LEACHATE | | | 10 00 | 1 601 | 800 | Sample 7A E | 10 S013 A | B013 B X X | BOIY A X Y X | Bu 14 B Y X X | B015 A |
| Parameters Id, LEACHATE Id, SOLID IT, LEACHATE LU, SOLID LI, SOLID | | | 10 00 | 1 601 | 800 | Sample 7A E | 10 S013 A | B013 B X X | BOIY A X Y X | Bu 14 B Y X X | B015 A |
| Parameters A, LFACHATE A, SOLID C, LEACHATE U, SOLID A, SOLID | i Saus | | 10 00 | 1 601 | 800 | Sample 7A E | 10 S013 A | B013 B X X | BOIY A X Y X | Bu 14 B Y X X | B015 A |
| Parameters A, LFACHATE A, SOLID C, LEACHATE U, SOLID A, SOLID A, SOLID A, SOLID A, SOLID | Sein (1444) | CC 0 | 10 00 | 1 601 | 800 | Sample 7A E | 10 S013 A | B013 B X X | BOIY A X Y X | Bu 14 B Y X X | B015 A |
| Parameters Id, LEACHATE Id, SOLID IV, LEACHATE IV, SOLID IN, SOLID IN, LEACHATE ELECTRICAL LICHLERDETH TELE | Sein (1444) | CC 0 | 10 00 | 1 601 | 800 | Sample 7A E | 10 S013 A | B013 B X X | BOIY A X Y X | Bu 14 B Y X X | B015 A |
| Parameters Id, LEACHATE Id, SOLID IV, LEACHATE IV, SOLID IN, SOLID IN, LEACHATE ELECTRICAL LICHLERDETH TELE | Sein (1444) | CC 0 | 10 00 | 1 601 | 800 | Sample 7A E | 10 S013 A | B013 B X X | BOIY A X Y X | Bu 14 B Y X X | B015 A |
| Parameters Id, LEACHATE Id, SOLID IV, LEACHATE IV, SOLID IN, SOLID IN, LEACHATE ELECTRICAL LICHLERDETH TELE | Sein (1444) | CC 0 | 10 00 | 1 601 | 800 | Sample 7A E | 10 S013 A | B013 B X X | BOIY A X Y X | Bu 14 B Y X X | B015 A |
| Parameters Id, LEACHATE Id, SOLID IV, LEACHATE IV, SOLID IN, SOLID IN, LEACHATE ELECTRICAL LICHLERDETH TELE | Sein (1444) | CC 0 | 10 00 | 1 601 | 800 | Sample 7A E | 10 S013 A | B013 B X X | BOIY A X Y X | Bu 14 B Y X X | B015 A |

HRP Associates, Inc. 167 New Britain Avenue Plainville, CT 06062 Phone: \860-793-6899

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Sheet Z of

Job Number MAC 0028, EC

| Sample Sample 1 | | ontainer | Total | | ~~ EC TIO | Da | te . | Time | San | ple Matrix | | ?emarks |
|--------------------------------|--|-------------------------|---------------|-----------|-----------|--------------|--------------|-------------|--------------|-------------|-------------|-------------|
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| 3018 A SOLDER | | | 502 | | 100 | 475 | 1 | 11 4 m | | | | FACE |
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| Relinquished By (Signatu | | | | | | ed By (Sign | | | Mell | Date 4-2 | | Time /7'55 |
| Name & Address of Labo | oratory: | EAS I | ABUCA | 7741 | Cn | nmer | CIAC | Sr | 1910 | DLEBUR | | |
| Parameters | | | | , 1 | | | Sample | | | | | |
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| r, LEACHATE | | X | X | | X | χ | | X | X | X | | |
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| LICHLORUETH HEN | SOLIA | | | | | | | | | | | |
| PICHLIPUETHYLE | Leaunse | <u>X</u> | γ | | <u>χ</u> | Υ | | χ | χ | X | | |
| VI, SOLID | | | 4 | | | | 1 | | | | | X |
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| | | | | | STILS | 9 | 1(7) | FL 60% | M4.1 | nike C | HENDEN | 14 |

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Sheet 3 of 3

Job Number MIC COZ8, &C

| Fax: 860-79 | | | | | F CUST | | Project | ivialiayei | RD | , |
|--|-------------|----------|-----------------|--------------|--------------------|--|--|--------------------|--------|--------------|
| Place & Address of C | ollection / | MAC DERI | mis, la | <u></u> | Sampl | ers Name (Signa | ture) | ~ ^ | | ? |
| 526 Hu | UTIN670 | N AVE | WATER | BLRY, C | T | 1 h | m/ l | 4 6 | m D | |
| Sample Sample 396-19 | Location C | | otal P olume | reservative | Date | Time | Samp | ile Matrix | Re | marks |
| B021A Solo | 2 51217 | G 8 | oz C | JOL | 4127/00 | Apar | Cou | CARIT | | |
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| | | | | | ~ | 1000 | 5-0 | 14.0 | | |
| Name & Address of La | boratory: | EAS L | MBORAT | DRY | am | めどしこりれし | | אומסוויי | BURY | CI |
| Name & Address of La | boratory: | EAS L | ABORA I | ory: | Samp | <i>melcjal</i> ole ID | .) . , | MIDDLE | BINKY | CI |
| | boratory: | | T | | Samp | | -wob2 | שומפוויי | BINEY | CI |
| Parameters WWW. | boratory: | BOZIA | BOZZ A | BOBA | Samp | ole ID | | 'IIDDLC | BURY | |
| Parameters AMMANAMA Colorb | sboratory: | BOZIA | T | B023 A | Samp | wov 1 | | ''/IDDLC | BURY | |
| Parameters AMAMAMA Color Co | boratory: | BOZIA | T | B023 A | Samp | wool X | | '' <i>''I'DDLC</i> | BINEY | |
| Parameters Ld, Solid Cr, LEACHAR Cu, Solid | sboratory: | BOZIA | T | B023 A | Samp | wool X Y | W002 | | BURY | |
| Parameters Ld, SOLID Cu, SOLID Pb, SOLID | | BOZIA | T | B023 A | Samp | worl X Y Y | W002 | ''/IDDLC | BINEY | |
| Parameters Ld, SOL'D Cr, LEACHARE Cu, SOL'D Pb, SOL'D Sn, LEACHARE | | BOZIA | T | B023 A | Samp | wool X Y | W002 X X X | | BURY | |
| Parameters Co, Solid Cu, Solid Ph, Solid Solid Solid | | BOZIA | T | B023 A | Samp | worl X Y X X | WODZ Y X X X | "// <i>DDLC</i> | BURY | |
| Parameters A, SOLID CU, SOLID PL, SOLID SO, LEACHATE TENERAL EICHLUROETHYLL | | BOZIA | 3022 A | B023 A | Samp BOZYA Y | WOVI X Y X X | WODZ Y X X X | "//DDLC | BINEY | |
| Parameters Ld, SOLID CU, SOLID PL, SOLID SOLID SOLID FICH LUROETHYLL VI, SOLID | | BOZIA | B022 1 | B013 A X | Samp | ile ID WOVI Y Y X X | WODZ Y X X X X | | BURY | |
| Parameters Co, Solid Co, Solid Ph, Solid Solid Coutachate Eich Luroethyll No, Solid Co, Solid Coutachate Coutachate Coutachate Coutachate Coutachate Coutachate | E o Golf P | BOZIA | 3022 A | B023 A | Samp BOZYA Y | V X X X X X | WODZ Y X X X | | BURY | |
| Parameters CL, SOLID CL, SOLID Ph, SOLID SN, LEACHATE EICH LUROETHYLL VI, SOLID Td, LEACHATE | E o Golf P | BOZIA | B022 1 | B013 A X | Samp BOZYA Y | V X X X X | WODZ Y X X X X | | BURY | |
| Parameters Co, Solid Co, Solid Ph, Solid Solid Coutachate Eich Luroethyll No, Solid Co, Solid Coutachate Coutachate Coutachate Coutachate Coutachate Coutachate | E o Golf P | BOZIA | B022 1 | B013 A X | Samp BOZYA Y | V X X X X X | WODZ Y X X X X | | BURY | |
| Parameters Cd, Solid Cr, LEACHARE Cu, Solid Pb, Solid Sn, LIACHATE TEICHLUROETHYLL NI, SOLID Cd, LEACHATE | E o Golf P | BOZIA | B022 1 | B013 A X | Samp BOZYA Y | V X X X X X | WODZ Y X X X X | | BURY | |
| Parameters Cd, Solid Cr, LEACHAR Cu, Solid Pb, Solid Sn, LEACHARE | E o Golf P | BOZIA | B022 1 | B013 A X | Samp BOZYA Y | V X X X X X | WODZ Y X X X X | | BURY | |

APPENDIX H

June 13, 2000 Sampling Results

e\rdm\rn\rcra closure summary

HRP

Associates, Inc.



June 21, 2000

MACDERMID, INC. 245 Freight Street Waterbury, CT 06702

Attention: Mr. Greg Strong

EAS Project Number: 00060143

Location Collected: 526 Huntingdon Ave, Waterbury, CT

Copies of this report and the supporting computer stored data are retained in our files in the event they are required for future reference.

Any sample submitted to our laboratory will be retained for a maximum of thirty (30) days from receipt of the report.

All analytical data, unless otherwise specified, is reported on a wet weight (as received) basis.

Our laboratory is a multi-state Certified Public Health Laboratory, offering a full range of analytical services that include:

Water and Wastewater Analysis Hazardous Waste Analysis (RCRA) Full Priority Pollutant Analysis Drinking Water Analysis

Laboratory Director

Inna

Location Collected: 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 04/27/00

Sample Description: B020B/Solder Strip EAS Sample Number: 00060143-01

LIMS ID Number: AB06689 Date Sample Received: 06/13/00

| | | Detection | | Analysis |
|--------------------------------|----------|-----------|-------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | 0.011 | 0.005 | mg/L | 06/16/00 |
| Cadmium, Solid | 3.1 | 0.10 | mg/kg | 06/15/00 |
| Nickel, Leachable | 0.33 | 0.02 | mg/L | 06/16/00 |
| Nickel, Solid | 15 | 0.40 | mg/kg | 06/15/00 |
| EP Toxicity Leaching Procedure | Complete | d | | 06/14/00 |

Location Collected: 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 04/27/00

Sample Description: B021B/Solder Strip EAS Sample Number: 00060143-02

LIMS ID Number: AB06690 Date Sample Received: 06/13/00

| | | Detection | | Analysis |
|--------------------------------|-----------|-----------|-------------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | 0.0077 | 0.005 | mg/L | 06/16/00 |
| Cadmium, Solid | 5.2 | 0.10 | mg/kg | 06/15/00 |
| Nickel, Leachable | 0.89 | 0.02 | ${ m mg/L}$ | 06/16/00 |
| Nickel, Solid | 25 | 0.40 | mg/kg | 06/15/00 |
| EP Toxicity Leaching Procedure | Completed | I | | 06/14/00 |

Location Collected: 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 04/27/00

Sample Description: B022B/Solder Strip EAS Sample Number: 00060143-03

LIMS ID Number: AB06691 Date Sample Received: 06/13/00

| | | Detection | | Analysis |
|--------------------------------|----------|-----------|-------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | BDL | 0.005 | mg/L | 06/16/00 |
| Cadmium, Solid | 5.1 | 0.10 | mg/kg | 06/15/00 |
| Nickel, Leachable | 0.099 | 0.02 | mg/L | 06/16/00 |
| Nickel, Solid | 19 | 0.40 | mg/kg | 06/15/00 |
| EP Toxicity Leaching Procedure | Complete | d | | 06/14/00 |

Location Collected: 526 Huntingdon Ave, Waterbury, CT

Date Sample Collected: 04/27/00

Sample Description: B024B/Solder Strip EAS Sample Number: 00060143-04

LIMS ID Number: AB06692 Date Sample Received: 06/13/00

| | | Detection | | Analysis |
|--------------------------------|----------|-----------|-------------|----------|
| Parameter | Data | Limit | Units | Date |
| Cadmium, Leachable | 0.021 | 0.005 | mg/L | 06/16/00 |
| Cadmium, Solid | 3.5 | 0.10 | mg/kg | 06/15/00 |
| Nickel, Leachable | 0.48 | 0.02 | ${ m mg/L}$ | 06/16/00 |
| Nickel, Solid | 30 | 0.40 | mg/kg | 06/15/00 |
| EP Toxicity Leaching Procedure | Complete | d | | 06/14/00 |

EAS Project Number: 00060143

Location Collected: 526 Huntingdon Ave, Waterbury, CT

EAS Certifications:

Connecticut Certified Laboratory Number: PH 0558

Massachusetts Certified Laboratory Number: M-CT020

Maine Certified Laboratory Number: CT 020

New Jersey Certified Laboratory Number: 46647

New York Certified Laboratory Number: 10916

Rhode Island Certified Number: 139

The enclosed analyses were conducted in accordance with:

- 1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
- 2. Clean Water Act, List of Approved Test Procedures, 40 CFR
- 3. EPA Test Methods for the Evaluation of solid Waste, SW-846, 3rd Edition, January 1998

HRP Associates, Inc. 167 New Britain Avenue Plainville, CT 06062

HRP

Sheet 3 of 3

Job Number MC 0025, RC

Phone: 860-793-6899 CHAIN OF CUSTODY ROM Project Manager Fax: 860-793-6871 MACDERMID, luc Samplers Name (Signature) Place & Address of Collection HUNTINGDON AVE WATERBURY 526 Sample 1.0. 19 Sample Location Container Total Preservative Remarks BOZIA SOLOGE STEN 4/27/20 8 or Am CAUL COUNTIE -Za BULLA SOLDER STEIR 806 cool Am 507 - 74 BUBA SOLDER STELL COUL Am - 24 BU ZY A SOLDER STEIR Um Ö 802 Cibi 1180E Pin P.6 TRIP BLANC BUNK GUL WATER CECL 10 302 WATER EDVIP BLOCK -23 W 202 Himpin John Stall €62 Mile Cherewell 6/13/00 ئن- Date 2/28-00 Time Received By (Signature) Relinquished By (Signature) Received By (Signature) / Relinquished By (Signature) Commercial ST MIDDLEBURY. LABORATORY Name & Address of Laboratory: Sample ID BU22 B ع القط ROLS A ROLYA 10001 302 A BULLA Ä. X d, solid Ż Cr: LEHOUAFE Ä Cu, Soud X r SOLID X X SM. LEACHDIE X X eich wedethyle ic leadyr X W. Sould ¥ ¥ X A X χ X X X X X ETHACHLISCOTHYES TO A THINK X Remarks: CTACHATE: EXTRACTION BY EP TOX WITH BOZZA is Soil Sample in BOZZB Solid: MASS ANALYSIS HRP GATACT: MIKE CHENOWETH T - TCLP Analysis P - Plastic M - Mass Analysis A - Amber Abbreviations: G - Glass

APPENDIX I

September 6, 1989 Fingerprint Specification for Spent Solder Stripper

e\rdm\m\rcra closure summary

September 6, 1989

MEMO TO: Cherrie Gillis

FROM: Ron Redline

cc: Alan Bares - Mary Jane Senechal - Marie Orsillo

SUBJECT: Fingerprint Sample - Spent Solder Stripper 17507/17595:

Schedule C

COMPANY: Total Engineering Services

CUSTOMER NUMBER: 078573

| TEST | RESULT | SPECIFICATION |
|---------------------|------------|---|
| l. Appearance | Acceptable | Blue, blue-green, light brown líquid @ 75 F |
| 2. Specific Gravity | 1.157 | 1.08 minimum |
| 3. pH | 5.1 | 3.5 - 6.0 |
| 4. Fluoride | 233.7 g/l | 110 g/l minimum |
| 5. Chloride | 910 ppm | 500 ppm maximum |
| 6. Copper | 0.50 g/l | 5 g/l maximum |
| 7. Lead | 38 ppm . | 50 ppm maximum |
| 8. Tin | 46 g/l | 22.5 g/l minimum |
| 9. Fluoborates | | 5 ppm maximum |
| 10. Iron | 1.0 ppm | 100 ppm maximum |
| ll. Nitrates | | 5 ppm maximum |
| 12. Nickel | 18 pom | 5 ppm maximum |
| | | |

13. Others as listed on generator certification

APPENDIX J

August 10, 2000 Sampling Results

e\rdm\rn\rcra closure summary

HRP

Ameriater Inc.



September 11, 2000

Client: MACDERMID, INC.

245 Freight Street Waterbury, CT 06702

Attention: Mr. Greg Strong

EAS Project Number(s): 00080149

Location Collected: Huntingdon Avenue, Waterbury, CT

* Limited sample volume for CC028/NMP. Total sulfide unable to be analyzed.

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Any sample submitted to our laboratory will be retained for a maximum of thirty (30) days from receipt of the sample.

All analytical data, unless otherwise specified, is reported on a wet weight (as received) basis.

Our laboratory is a multi-state Certified Public Health Laboratory, offering a full range of analytical services which include:

Drinking Water Analysis
Water and Wastewater Analysis
Hazardous Waste Analysis (RCRA)
Full Priority Pollutant Analysis
Field Sampling

regory C Lawrence

Laboratory Director

encl.

Location Collected: Huntingdon Avenue, Waterbury, CT

Date Sample Collected: 08/10/00

Sample Description: CC016/Solder Strip EAS Sample Number: 00080149-01

LIMS ID Number: AB09174 Date Sample Received: 08/10/00 Client Project Number: MAC0030.RC

| | | Detection | | Analysis |
|-----------------------------------|----------------|-----------|---------|----------|
| Parameter | Data | Limit | Units | Date |
| Cyanide, Leachable | BDL | 0.15 | mg/L | 08/18/00 |
| Cyanide, Solid | BDL | 5.0 | mg/kg | 08/18/00 |
| Sulfide-Total, Solid | 28 | 10 | mg/kg | 09/05/00 |
| Barium, Leachable | 0.21 | 0.005 | mg/L | 08/17/00 |
| Barium, Solid | 22 | 0.10 | mg/kg | 08/14/00 |
| Cadmium, Leachable | BDL | 0.005 | mg/L | 08/17/00 |
| Cadmium, Solid | 3.3 | 0.10 | mg/kg | 08/14/00 |
| Chromium, Leachable | BDL | 0.02 | mg/L | 08/17/00 |
| Chromium, Solid | 6.4 | 0.40 | mg/kg | 08/14/00 |
| Copper, Leachable | 0.078 | 0.01 | mg/L | 08/17/00 |
| Copper, Solid | 31 | 0.20 | mg/kg | 08/14/00 |
| Lead, Solid | 1.9 | 1.0 | mg/kg | 08/14/00 |
| Lead-Low Level, Leachable | \mathtt{BDL} | 0.005 | mg/L | 08/18/00 |
| Nickel, Leachable | 0.051 | 0.02 | mg/L | 08/17/00 |
| Nickel, Solid | 5.3 | 0.40 | mg/kg | 08/14/00 |
| Sulfide, Leachable | BDL | 1.0 | mg/L | 09/05/00 |
| Tin, Leachable | BDL | 0.01 | mg/L | 08/17/00 |
| Tin, Solid | 110 | 0.20 | mg/kg | 08/14/00 |
| Zinc, Leachable | 0.051 | 0.005 | mg/L | 08/17/00 |
| Zinc, Solid | 18 | 0.10 | mg/kg | 08/14/00 |
| BNA Extraction, Solid | Completed | | | 08/14/00 |
| EP Toxicity Leaching Procedure | Completed | | | 08/14/00 |
| Method 8270, Solid | | | | • |
| Bis (2-ethylhexyl) phthalate | 660 | 330 | ug/kg | 08/24/00 |
| Benzyl Alcohol | BDL | 330 | ug/kg | 08/24/00 |
| Volatile Organic Compounds, Solid | | * | | |
| Trichlorofluoromethane | BDL | 10 | ug/kg | 08/21/00 |
| Acetone | \mathtt{BDL} | 25 | ug/kg | 08/21/00 |
| Methylene Chloride | BDL | 10 | ug/kg | 08/21/00 |
| 2 -Butanone | BDL | 10 | ug/kg | 08/21/00 |
| 1,1,1-Trichloroethane | BDL | 10 | ug/kg | 08/21/00 |
| Trichloroethene | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| 4-Methyl-2-Pentanone | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| Toluene | \mathtt{BDL} | 10 | , ug/kg | 08/21/00 |
| Tetrachoroethylene | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| Chlorobenzene | BDL | .10 | ug/kg | 08/21/00 |
| | | | | |

Location Collected: Huntingdon Avenue, Waterbury, CT

Date Sample Collected: 08/10/00

Sample Description: CC016/Solder Strip EAS Sample Number: 00080149-01

LIMS ID Number: AB09174 Date Sample Received: 08/10/00 Client Project Number: MAC0030.RC

| Parameter | Data | Detection Limit | Units | Analysis Date |
|--------------|------|--------------------|-------|------------------|
| Ethylbenzene | BDL | 10 | ug/kg | 08/21/00 |
| m/p-Xylene | 40 | 10 | ug/kg | 08/21/00 |
| 0-Xylene | 16 | 10 | ug/kg | 08/21/00 |
| 1,4-Dioxane | BDL | 100 | ug/kg | 08/21/00 |
| Isobutanol | BDL | 50 | ug/kg | 08/21/00 |

Location Collected: Huntingdon Avenue, Waterbury, CT

Date Sample Collected: 08/10/00

Sample Description: CC017/Solder Strip EAS Sample Number: 00080149-02

LIMS ID Number: AB09175
Date Sample Received: 08/10/00
Client Project Number: MAC0030.RC

| Parameter | Data | Detection Limit | Units | Analysis Date |
|-----------------------------------|----------------|--------------------|-------------|------------------|
| Cyanide, Leachable | BDL | 0.15 | mg/L | 08/18/00 |
| Cyanide, Solid | BDL | 5.0 | mg/kg | 08/18/00 |
| Sulfide-Total, Solid | 12 | 10 | mg/kg | 09/05/00 |
| Barium, Leachable | 0.19 | 0.005 | mg/L | 08/17/00 |
| Barium, Solid | 24 | 0.10 | mg/kg | 08/14/00 |
| Cadmium, Leachable | 0.011 | 0.005 | mg/L | .08/17/00 |
| Cadmium, Solid | 3.4 | 0.10 | mg/kg | 08/14/00 |
| Chromium, Leachable | \mathtt{BDL} | 0.02 | mg/L | 08/17/00 |
| Chromium, Solid | 9.6 | 0.40 | mg/kg | 08/14/00 |
| Copper, Leachable | 0.34 | 0.01 | mg/L | 08/17/00 |
| Copper, Solid | 86 | 0.20 | mg/kg | 08/14/00 |
| Lead, Solid | 27 | 1.0 | mg/kg | 08/14/00 |
| Lead-Low Level, Leachable | \mathtt{BDL} | 0.005 | mg/L | 08/18/00 |
| Nickel, Leachable | 0.07 | 0.02 | mg/L | 08/17/00 |
| Nickel, Solid | 8.7 | 0.40 | mg/kg | 08/14/00 |
| Sulfide, Leachable | \mathtt{BDL} | 1.0 | mg/L | 09/05/00 |
| Tin, Leachable | BDL | 0.01 | ${ m mg/L}$ | 08/17/00 |
| Tin, Solid | 34 | 0.20 | mg/kg | 08/14/00 |
| Zinc, Leachable | 0.52 | 0.005 | mg/L | 08/17/00 |
| Zinc, Solid | 51 | 0.10 | mg/kg | 08/14/00 |
| BNA Extraction, Solid | Completed | · - | | 08/14/00 |
| EP Toxicity Leaching Procedure | Completed | | | 08/14/00 |
| Method 8270, Solid | | | | • |
| Bis (2-ethylhexyl) phthalate | 1600 | 330 | ug/kg | 08/24/00 |
| Benzyl Alcohol | \mathtt{BDL} | 330 | ug/kg | 08/24/00 |
| Volatile Organic Compounds, Solid | | | | |
| Trichlorofluoromethane | BDL | 10 | ug/kg | 08/21/00 |
| Acetone | \mathtt{BDL} | 25 | ug/kg | 08/21/00 |
| Methylene Chloride | BDL | 10 | ug/kg | 08/21/00 |
| 2 -Butanone | 22 | 10 | ug/kg | 08/21/00 |
| 1,1,1-Trichloroethane | BDL | 10 | ug/kg | 08/21/00 |
| Trichloroethene | BDL | 10 | ug/kg | 08/21/00 |
| 4-Methyl-2-Pentanone | BDL | 10 | ug/kg | 08/21/00 |
| Toluene | BDL | 10 | ug/kg | 08/21/00 |
| Tetrachoroethylene | BDL | 10 | ug/kg | 08/21/00 |
| Chlorobenzene | BDL | 10 | ug/kg | 08/21/00 |
| | | | | |

Location Collected: Huntingdon Avenue, Waterbury, CT

Date Sample Collected: 08/10/00

Sample Description: CC017/Solder Strip EAS Sample Number: 00080149-02

LIMS ID Number: AB09175 Date Sample Received: 08/10/00 Client Project Number: MAC0030.RC

| | | Analysis | | |
|--------------|----------------|----------|-------|----------|
| Parameter | Data | Limit | Units | Date |
| Ethylbenzene | 74 | 10 | ug/kg | 08/21/00 |
| m/p-Xylene | 270 | 10 | ug/kg | 08/21/00 |
| 0-Xylene | 75 | 10 | ug/kg | 08/21/00 |
| 1,4-Dioxane | \mathtt{BDL} | 100 | ug/kg | 08/21/00 |
| Isobutanol | \mathtt{BDL} | 50 | ug/kg | 08/21/00 |

Location Collected: Huntingdon Avenue, Waterbury, CT

Date Sample Collected: 08/10/00

Sample Description: CC018/Solder Strip EAS Sample Number: 00080149-03

LIMS ID Number: AB09176
Date Sample Received: 08/10/00
Client Project Number: MAC0030.RC

| | | Detection | | Analysis |
|-----------------------------------|----------------|-----------|----------|----------|
| Parameter | Data | Limit | Units | Date |
| Cyanide, Leachable | BDL | 0.15 | mg/L | 08/18/00 |
| Cyanide, Solid | \mathtt{BDL} | 5.0 | mg/kg | 08/18/00 |
| Sulfide-Total, Solid | BDL | 10 | mg/kg | 09/05/00 |
| Barium, Leachable | 0.078 | 0.005 | mg/L | 08/17/00 |
| Barium, Solid | 52 | 0.10 | mg/kg | 08/14/00 |
| Cadmium, Leachable | BDL | 0.005 | mg/L | 08/17/00 |
| Cadmium, Solid | 4.5 | 0.10 | mg/kg | 08/14/00 |
| Chromium, Leachable | BDL | 0.02 | mg/L | 08/17/00 |
| Chromium, Solid | 19 | 0.40 | mg/kg | 08/14/00 |
| Copper, Leachable | 14 | 0.01 | mg/L | 08/17/00 |
| Copper, Solid | 980 | 0.20 | mg/kg | 08/14/00 |
| Lead, Solid | 73 | 1.0 | mg/kg | 08/14/00 |
| Lead-Low Level, Leachable | 0.023 | 0.005 | mg/L | 08/18/00 |
| Nickel, Leachable | 0.051 | 0.02 | mg/L | 08/17/00 |
| Nickel, Solid | 11 | 0.40 | mg/kg | 08/14/00 |
| Sulfide, Leachable | \mathtt{BDL} | 1.0 | mg/L | 09/05/00 |
| Tin, Leachable | \mathtt{BDL} | 0.01 | mg/L | 08/17/00 |
| Tin, Solid | 640 | 0.20 | mg/kg | 08/14/00 |
| Zinc, Leachable | 0.91 | 0.005 | mg/L | 08/17/00 |
| Zinc, Solid | 110 | 0.10 | mg/kg | 08/14/00 |
| BNA Extraction, Solid | Complete | 1 | | 08/14/00 |
| EP Toxicity Leaching Procedure | Completed | | 08/14/00 | |
| Method 8270, Solid | • | | | |
| Bis (2-ethylhexyl) phthalate | BDL | 330 | ug/kg | 08/24/00 |
| Benzyl Alcohol | BDL | 330 | ug/kg | 08/24/00 |
| Volatile Organic Compounds, Solid | | | | |
| Trichlorofluoromethane | BDL | 10 | ug/kg | 08/21/00 |
| Acetone | - BDL | 25 | ug/kg | 08/21/00 |
| Methylene Chloride | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| 2 -Butanone | BDL | 10 . | ug/kg | 08/21/00 |
| 1,1,1-Trichloroethane | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| Trichloroethene | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| 4-Methyl-2-Pentanone | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| Toluene | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| Tetrachoroethylene | BDL | 10 | ug/kg | 08/21/00 |
| Chlorobenzene | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| | | | | |

Location Collected: Huntingdon Avenue, Waterbury, CT

Date Sample Collected: 08/10/00

Sample Description: CC018/Solder Strip EAS Sample Number: 00080149-03

LIMS ID Number: AB09176
Date Sample Received: 08/10/00
Client Project Number: MAC0030.RC

| Parameter | | Detection | | |
|--------------|----------------|-----------|-------|----------|
| | <u>Data</u> | Limit | Units | Date |
| Ethylbenzene | 190 | 10 | ug/kg | 08/21/00 |
| m/p-Xylene | 1000 | 10 | ug/kg | 08/21/00 |
| 0-Xylene | 390 | 10 | ug/kg | 08/21/00 |
| 1,4-Dioxane | 190 | 100 | ug/kg | 08/21/00 |
| Isobutanol | \mathtt{BDL} | 50 | ug/kg | 08/21/00 |

Location Collected: Huntingdon Avenue, Waterbury, CT

Date Sample Collected: 08/10/00

Sample Description: CC019/Solder Strip EAS Sample Number: 00080149-04

LIMS ID Number: AB09177
Date Sample Received: 08/10/00
Client Project Number: MAC0030.RC

| Cyanide, Leachable BDL 0.15 mg/L 08/18/00 Cyanide, Solid BDL 5.0 mg/kg 08/18/00 Sulfide-Total, Solid BDL 10 mg/kg 09/05/00 Barium, Leachable 0.22 0.005 mg/L 08/17/00 Barium, Solid 27 0.10 mg/kg 08/14/00 Cadmium, Leachable BDL 0.005 mg/L 08/17/00 Cadmium, Solid 3.2 0.10 mg/kg 08/14/00 Chromium, Leachable BDL 0.02 mg/L 08/17/00 Chromium, Solid 6.7 0.40 mg/kg 08/14/00 Copper, Leachable 0.092 0.01 mg/kg 08/14/00 Copper, Solid 10 0.20 mg/kg 08/14/00 Lead, Solid 14 1.0 mg/kg 08/14/00 Nickel, Leachable BDL 0.005 mg/L 08/14/00 Nickel, Leachable BDL 1.0 mg/kg 08/14/00 T | Parameter | Data | Detection Limit | Units | Analysis Date |
|--|---------------------------------------|-------------------|--------------------|----------------|------------------|
| Cyanide, Solid BDL 5.0 mg/kg 08/18/00 Sulfide-Total, Solid BDL 10 mg/kg 09/05/00 Barium, Leachable 0.22 0.005 mg/L 08/17/00 Barium, Solid 27 0.10 mg/kg 08/14/00 Cadmium, Leachable BDL 0.005 mg/L 08/14/00 Chromium, Solid 3.2 0.10 mg/kg 08/14/00 Chromium, Solid 6.7 0.40 mg/kg 08/14/00 Copper, Leachable 0.092 0.01 mg/L 08/17/00 Copper, Solid 100 0.20 mg/kg 08/14/00 Lead, Solid 14 1.0 mg/kg 08/14/00 Lead-Low Level, Leachable BDL 0.005 mg/L 08/11/00 Nickel, Leachable BDL 0.00 mg/kg 08/11/00 Nickel, Leachable BDL 1.0 mg/kg 08/11/00 Sulfide, Leachable BDL 1.0 mg/kg 08/11/00 | | | | | |
| Sulfide-Total, Solid BDL 10 | e e | | | - | |
| Barium, Leachable 0.22 0.005 mg/L 08/17/00 Barium, Solid 27 0.10 mg/kg 08/14/00 Cadmium, Leachable BDL 0.005 mg/L 08/14/00 Cadmium, Solid 3.2 0.10 mg/kg 08/14/00 Chromium, Leachable BDL 0.02 mg/L 08/17/00 Chromium, Solid 6.7 0.40 mg/kg 08/14/00 Copper, Leachable 0.092 0.01 mg/L 08/17/00 Copper, Solid 100 0.20 mg/kg 08/14/00 Lead, Solid 14 1.0 mg/kg 08/14/00 Lead, Solid 14 1.0 mg/kg 08/14/00 Nickel, Leachable BDL 0.005 mg/L 08/18/00 Nickel, Leachable BDL 0.00 mg/kg 08/14/00 Sulfide, Leachable BDL 1.0 mg/kg 08/14/00 Tin, Solid 20 0.01 mg/kg 08/14/00 Zinc, Solid </td <td>=</td> <td></td> <td></td> <td></td> <td></td> | = | | | | |
| Barium, Solid Cadmium, Leachable BDL Cadmium, Solid Cadmium, Solid Cadmium, Solid Chromium, Leachable BDL Chromium, Leachable BDL Chromium, Leachable BDL Chromium, Solid Chromium, Solid Chromium, Solid Copper, Leachable Copper, Leachable Copper, Leachable Copper, Solid D0 Copper, Solid D0 Copper, Solid D0 Cadmium, Solid D0 Copper, Solid D0 C0 D0 C0 D0 C0 D0 C0 D0 C0 D0 C0 D0 C0 D0 C0 D0 C0 D0 | | | | = | |
| Cadmium, Leachable BDL 0.005 mg/L 08/17/00 Cadmium, Solid 3.2 0.10 mg/kg 08/14/00 Chromium, Leachable BDL 0.02 mg/L 08/17/00 Chromium, Solid 6.7 0.40 mg/kg 08/14/00 Copper, Leachable 0.092 0.01 mg/L 08/17/00 Copper, Solid 100 0.20 mg/kg 08/14/00 Lead, Solid 14 1.0 mg/kg 08/14/00 Lead-Low Level, Leachable BDL 0.005 mg/L 08/18/00 Nickel, Leachable 0.044 0.02 mg/L 08/18/00 Nickel, Solid 8.3 0.40 mg/kg 08/14/00 Sulfide, Leachable BDL 1.0 mg/L 08/17/00 Tin, Leachable BDL 0.01 mg/L 08/17/00 Zinc, Leachable 1.3 0.005 mg/L 08/17/00 Zinc, Leachable 1.3 0.005 mg/L 08/17/00 < | · | | | - | |
| Cadmium, Solid 3.2 0.10 mg/kg 08/14/00 Chromium, Leachable BDL 0.02 mg/L 08/17/00 Chromium, Solid 6.7 0.40 mg/kg 08/14/00 Copper, Leachable 0.092 0.01 mg/kg 08/14/00 Copper, Solid 100 0.20 mg/kg 08/14/00 Lead, Solid 14 1.0 mg/kg 08/14/00 Lead-Low Level, Leachable BDL 0.005 mg/L 08/18/00 Nickel, Leachable 0.044 0.02 mg/L 08/11/00 Nickel, Leachable BDL 1.0 mg/kg 08/14/00 Sulfide, Leachable BDL 1.0 mg/L 09/05/00 Tin, Leachable BDL 1.0 mg/kg 08/14/00 Zinc, Solid 270 0.20 mg/kg 08/14/00 Zinc, Solid 200 0.10 mg/kg 08/14/00 EV Toxicity Leaching Procedure Completed 08/14/00 Bis (2-ethylhexyl) phthalate | · | | | | |
| Chromium, Leachable BDL 0.02 mg/L 08/17/00 Chromium, Solid 6.7 0.40 mg/kg 08/14/00 Copper, Leachable 0.092 0.01 mg/L 08/17/00 Copper, Solid 100 0.20 mg/kg 08/14/00 Lead, Solid 14 1.0 mg/kg 08/14/00 Lead-Low Level, Leachable BDL 0.005 mg/L 08/18/00 Nickel, Leachable 0.044 0.02 mg/L 08/18/00 Nickel, Leachable BDL 1.0 mg/L 08/17/00 Nickel, Solid 8.3 0.40 mg/kg 08/14/00 Sulfide, Leachable BDL 1.0 mg/L 08/17/00 Tin, Leachable BDL 0.01 mg/L 08/14/00 Zinc, Solid 270 0.20 mg/kg 08/14/00 BNA Extraction, Solid Completed 08/14/00 08/14/00 Method 8270, Solid Bis (2-ethylhexyl) phthalate 110 330 ug/kg 08/24/0 | | | | - | |
| Chromium, Solid 6.7 0.40 mg/kg 08/14/00 Copper, Leachable 0.092 0.01 mg/L 08/17/00 Copper, Solid 100 0.20 mg/kg 08/14/00 Lead, Solid 14 1.0 mg/kg 08/14/00 Lead-Low Level, Leachable BDL 0.005 mg/L 08/18/00 Nickel, Leachable 0.044 0.02 mg/L 08/17/00 Nickel, Solid 8.3 0.40 mg/kg 08/14/00 Sulfide, Leachable BDL 1.0 mg/L 09/05/00 Tin, Leachable BDL 0.01 mg/L 08/17/00 Zinc, Solid 270 0.20 mg/kg 08/14/00 BNA Extraction, Solid Completed 08/14/00 08/14/00 EP Toxicity Leaching Procedure Completed 08/14/00 Method 8270, Solid Completed 08/14/00 Bis (2-ethylhexyl) phthalate 1100 330 ug/kg 08/24/00 Benzyl Alcohol BDL 330 <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td></td> <td></td> | · · · · · · · · · · · · · · · · · · · | | | | |
| Copper, Leachable 0.092 0.01 mg/L 08/17/00 Copper, Solid 100 0.20 mg/kg 08/14/00 Lead, Solid 14 1.0 mg/kg 08/14/00 Lead-Low Level, Leachable BDL 0.005 mg/L 08/18/00 Nickel, Leachable 0.044 0.02 mg/L 08/17/00 Nickel, Solid 8.3 0.40 mg/kg 08/14/00 Sulfide, Leachable BDL 1.0 mg/L 09/05/00 Tin, Leachable BDL 0.01 mg/L 08/17/00 Tin, Solid 270 0.20 mg/kg 08/14/00 Zinc, Leachable 1.3 0.005 mg/L 08/17/00 Zinc, Solid 200 0.10 mg/kg 08/14/00 BNA Extraction, Solid Completed 08/14/00 08/14/00 Wethod 8270, Solid Bis (2-ethylhexyl) phthalate 1100 330 ug/kg 08/24/00 Benzyl Alcohol BDL 330 ug/kg 08/24/00 | | | | - | |
| Copper, Solid 100 0.20 mg/kg 08/14/00 Lead, Solid 14 1.0 mg/kg 08/14/00 Lead-Low Level, Leachable BDL 0.005 mg/L 08/18/00 Nickel, Leachable 0.044 0.02 mg/L 08/17/00 Nickel, Solid 8.3 0.40 mg/kg 08/14/00 Sulfide, Leachable BDL 1.0 mg/L 08/17/00 Tin, Leachable BDL 0.01 mg/L 08/17/00 Tin, Solid 270 0.20 mg/kg 08/14/00 Zinc, Leachable 1.3 0.005 mg/L 08/17/00 Zinc, Solid 200 0.10 mg/kg 08/14/00 BNA Extraction, Solid Completed 08/14/00 08/14/00 EP Toxicity Leaching Procedure Completed 08/14/00 08/14/00 Method 8270, Solid BDL 330 ug/kg 08/24/00 Benzyl Alcohol BDL 330 ug/kg 08/24/00 Volatile Organic Co | | | | | |
| Lead, Solid 14 1.0 mg/kg 08/14/00 Lead-Low Level, Leachable BDL 0.005 mg/L 08/18/00 Nickel, Leachable 0.044 0.02 mg/L 08/17/00 Nickel, Solid 8.3 0.40 mg/kg 08/14/00 Sulfide, Leachable BDL 1.0 mg/L 09/05/00 Tin, Leachable BDL 0.01 mg/L 08/17/00 Zinc, Solid 270 0.20 mg/kg 08/14/00 Zinc, Solid 200 0.10 mg/kg 08/14/00 BNA Extraction, Solid Completed 08/14/00 08/14/00 EP Toxicity Leaching Procedure Completed 08/14/00 Method 8270, Solid BDL 330 ug/kg 08/24/00 Method 8270, Solid BDL 330 ug/kg 08/24/00 Volatile Organic Compounds, Solid BDL 330 ug/kg 08/24/00 Acetone BDL 10 ug/kg 08/21/00 Acetone BDL <td></td> <td></td> <td></td> <td>-</td> <td></td> | | | | - | |
| Lead-Low Level, Leachable BDL 0.005 mg/L 08/18/00 Nickel, Leachable 0.044 0.02 mg/L 08/17/00 Nickel, Solid 8.3 0.40 mg/kg 08/14/00 Sulfide, Leachable BDL 1.0 mg/L 09/05/00 Tin, Leachable BDL 0.01 mg/L 08/17/00 Tin, Leachable BDL 0.01 mg/L 08/17/00 Tin, Solid 270 0.20 mg/kg 08/14/00 Zinc, Leachable 1.3 0.005 mg/L 08/17/00 Zinc, Solid 200 0.10 mg/kg 08/14/00 BNA Extraction, Solid Completed 08/14/00 EP Toxicity Leaching Procedure Completed 08/14/00 Method 8270, Solid Bis (2-ethylhexyl) phthalate 1100 330 ug/kg 08/24/00 Benzyl Alcohol BDL 330 ug/kg 08/24/00 Volatile Organic Compounds, Solid Trichlorofluoromethane BDL 10 ug/kg 08/21/00 Acetone BDL 25 ug/kg 08/21/00 Acetone BDL 10 ug/kg 08/21/00 2-Butanone BDL 10 ug/kg 08/21/00 1,1,1-Trichloroethane BDL 10 ug/kg 08/21/00 Trichloroethene BDL 10 ug/kg 08/21/00 4-Methyl-2-Pentanone 12 10 ug/kg 08/21/00 Toluene BDL 10 ug/kg 08/21/00 | | | | | |
| Nickel, Leachable 0.044 0.02 mg/L 08/17/00 Nickel, Solid 8.3 0.40 mg/kg 08/14/00 Sulfide, Leachable BDL 1.0 mg/L 09/05/00 Tin, Leachable BDL 0.01 mg/L 08/17/00 Tin, Solid 270 0.20 mg/kg 08/14/00 Zinc, Leachable 1.3 0.005 mg/L 08/17/00 Zinc, Solid 200 0.10 mg/kg 08/14/00 BNA Extraction, Solid Completed 08/14/00 08/14/00 EP Toxicity Leaching Procedure Completed 08/14/00 08/14/00 Method 8270, Solid Inc. Inc. 08/14/00 08/14/00 08/14/00 Benzyl Alcohol BDL 330 ug/kg 08/24/00 08/24/00 Volatile Organic Compounds, Solid Trichlorofluoromethane BDL 10 ug/kg 08/21/00 Acetone BDL 10 ug/kg 08/21/00 Methylene Chloride BDL 10 <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | |
| Nickel, Solid 8.3 0.40 mg/kg 08/14/00 Sulfide, Leachable BDL 1.0 mg/L 09/05/00 Tin, Leachable BDL 0.01 mg/L 08/17/00 Tin, Solid 270 0.20 mg/kg 08/14/00 Zinc, Leachable 1.3 0.005 mg/L 08/17/00 Zinc, Solid 200 0.10 mg/kg 08/14/00 BNA Extraction, Solid Completed 08/14/00 08/14/00 EP Toxicity Leaching Procedure Completed 08/14/00 08/14/00 Method 8270, Solid Sig Ug/kg 08/24/00 Bis (2-ethylhexyl) phthalate 1100 330 ug/kg 08/24/00 Benzyl Alcohol BDL 330 ug/kg 08/24/00 Volatile Organic Compounds, Solid Virial Compounds, Solid Ug/kg 08/21/00 Acetone BDL 10 ug/kg 08/21/00 Acetone BDL 10 ug/kg 08/21/00 2 - Butanone BDL <td>· ·</td> <td></td> <td></td> <td>=</td> <td></td> | · · | | | = | |
| Sulfide, Leachable BDL 1.0 mg/L 09/05/00 Tin, Leachable BDL 0.01 mg/L 08/17/00 Tin, Solid 270 0.20 mg/kg 08/14/00 Zinc, Leachable 1.3 0.005 mg/L 08/17/00 Zinc, Solid 200 0.10 mg/kg 08/14/00 BNA Extraction, Solid Completed 08/14/00 EP Toxicity Leaching Procedure Completed 08/14/00 Method 8270, Solid Ug/kg 08/24/00 Bis (2-ethylhexyl) phthalate 1100 330 ug/kg 08/24/00 Benzyl Alcohol BDL 330 ug/kg 08/24/00 Volatile Organic Compounds, Solid Village Trichlorofluoromethane BDL 10 ug/kg 08/21/00 Acetone BDL 10 ug/kg 08/21/00 Methylene Chloride BDL 10 ug/kg 08/21/00 2 - Butanone BDL 10 ug/kg 08/21/00 1,1,1 Trichloroethane < | | | | = | |
| Tin, Leachable BDL 0.01 mg/L 08/17/00 Tin, Solid 270 0.20 mg/kg 08/14/00 Zinc, Leachable 1.3 0.005 mg/L 08/17/00 Zinc, Solid 200 0.10 mg/kg 08/14/00 BNA Extraction, Solid Completed 08/14/00 EP Toxicity Leaching Procedure Completed 08/24/00 Method 8270, Solid Ug/kg 08/24/00 Bis (2-ethylhexyl) phthalate 1100 330 ug/kg 08/24/00 Benzyl Alcohol BDL 330 ug/kg 08/24/00 Volatile Organic Compounds, Solid BDL 10 ug/kg 08/21/00 Acetone BDL 25 ug/kg 08/21/00 Acetone BDL 10 ug/kg 08/21/00 2 - Butanone BDL 10 ug/kg 08/21/00 1,1,1-Trichloroethane BDL 10 ug/kg 08/21/00 Trichloroethene BDL 10 ug/kg 08/21/00 <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | |
| Tin, Solid 270 0.20 mg/kg 08/14/00 Zinc, Leachable 1.3 0.005 mg/L 08/17/00 Zinc, Solid 200 0.10 mg/kg 08/14/00 BNA Extraction, Solid Completed 08/14/00 EP Toxicity Leaching Procedure Completed 08/14/00 Method 8270, Solid Tillogolia 330 ug/kg 08/24/00 Benzyl Alcohol BDL 330 ug/kg 08/24/00 Volatile Organic Compounds, Solid BDL 10 ug/kg 08/21/00 Acetone BDL 10 ug/kg 08/21/00 Acetone BDL 10 ug/kg 08/21/00 Methylene Chloride BDL 10 ug/kg 08/21/00 2 - Butanone BDL 10 ug/kg 08/21/00 1,1,1-Trichloroethane BDL 10 ug/kg 08/21/00 Trichloroethene BDL 10 ug/kg 08/21/00 4-Methyl-2-Pentanone 12 10 | | | | - | |
| Zinc, Leachable 1.3 0.005 mg/L 08/17/00 Zinc, Solid 200 0.10 mg/kg 08/14/00 BNA Extraction, Solid Completed 08/14/00 EP Toxicity Leaching Procedure Completed 08/14/00 Method 8270, Solid Till 00 330 ug/kg 08/24/00 Bis (2-ethylhexyl) phthalate 1100 330 ug/kg 08/24/00 Benzyl Alcohol BDL 330 ug/kg 08/24/00 Volatile Organic Compounds, Solid Trichlorofluoromethane BDL 10 ug/kg 08/21/00 Acetone BDL 10 ug/kg 08/21/00 Methylene Chloride BDL 10 ug/kg 08/21/00 2 - Butanone BDL 10 ug/kg 08/21/00 1,1,1-Trichloroethane BDL 10 ug/kg 08/21/00 Trichloroethene BDL 10 ug/kg 08/21/00 4-Methyl-2-Pentanone 12 10 ug/kg 08/21/00 Toluene BDL 10 ug/kg 08/21/00 | Tin, Solid | 270 | | - | |
| Zinc, Solid 200 0.10 mg/kg 08/14/00 BNA Extraction, Solid Completed 08/14/00 EP Toxicity Leaching Procedure Completed 08/14/00 Method 8270, Solid Trichlord Solid Ug/kg 08/24/00 Bis (2-ethylhexyl) phthalate 1100 330 ug/kg 08/24/00 Benzyl Alcohol BDL 330 ug/kg 08/24/00 Volatile Organic Compounds, Solid Trichlorofluoromethane BDL 10 ug/kg 08/21/00 Acetone BDL 25 ug/kg 08/21/00 Methylene Chloride BDL 10 ug/kg 08/21/00 2 - Butanone BDL 10 ug/kg 08/21/00 1,1,1-Trichloroethane BDL 10 ug/kg 08/21/00 4-Methyl-2-Pentanone 12 10 ug/kg 08/21/00 Toluene BDL 10 ug/kg 08/21/00 | Zinc, Leachable | 1.3 | 0.005 | - - | |
| BNA Extraction, Solid Completed 08/14/00 EP Toxicity Leaching Procedure Completed 08/14/00 Method 8270, Solid Bis (2-ethylhexyl) phthalate 1100 330 ug/kg 08/24/00 Benzyl Alcohol BDL 330 ug/kg 08/24/00 Volatile Organic Compounds, Solid Trichlorofluoromethane BDL 10 ug/kg 08/21/00 Acetone BDL 25 ug/kg 08/21/00 Methylene Chloride BDL 10 ug/kg 08/21/00 2 - Butanone BDL 10 ug/kg 08/21/00 1,1,1-Trichloroethane BDL 10 ug/kg 08/21/00 4-Methyl-2-Pentanone 12 10 ug/kg 08/21/00 Toluene BDL 10 ug/kg 08/21/00 | Zinc, Solid | | 0.10 | - | |
| Method 8270, Solid Bis (2-ethylhexyl) phthalate 1100 330 ug/kg 08/24/00 Benzyl Alcohol BDL 330 ug/kg 08/24/00 Volatile Organic Compounds, Solid Trichlorofluoromethane BDL 10 ug/kg 08/21/00 Acetone BDL 25 ug/kg 08/21/00 Methylene Chloride BDL 10 ug/kg 08/21/00 2 -Butanone BDL 10 ug/kg 08/21/00 1,1,1-Trichloroethane BDL 10 ug/kg 08/21/00 Trichloroethene BDL 10 ug/kg 08/21/00 4-Methyl-2-Pentanone 12 10 ug/kg 08/21/00 Toluene BDL 10 ug/kg 08/21/00 | BNA Extraction, Solid | Completed | | 33 | |
| Bis (2-ethylhexyl) phthalate 1100 330 ug/kg 08/24/00 Benzyl Alcohol BDL 330 ug/kg 08/24/00 Volatile Organic Compounds, Solid Trichlorofluoromethane BDL 10 ug/kg 08/21/00 Acetone BDL 25 ug/kg 08/21/00 Methylene Chloride BDL 10 ug/kg 08/21/00 2 -Butanone BDL 10 ug/kg 08/21/00 1,1,1-Trichloroethane BDL 10 ug/kg 08/21/00 Trichloroethene BDL 10 ug/kg 08/21/00 4-Methyl-2-Pentanone 12 10 ug/kg 08/21/00 Toluene BDL 10 ug/kg 08/21/00 | EP Toxicity Leaching Procedure | Completed | | | 08/14/00 |
| Benzyl Alcohol BDL 330 ug/kg 08/24/00 Volatile Organic Compounds, Solid Trichlorofluoromethane BDL 10 ug/kg 08/21/00 Acetone BDL 25 ug/kg 08/21/00 Methylene Chloride BDL 10 ug/kg 08/21/00 2 - Butanone BDL 10 ug/kg 08/21/00 1,1,1-Trichloroethane BDL 10 ug/kg 08/21/00 Trichloroethene BDL 10 ug/kg 08/21/00 4-Methyl-2-Pentanone 12 10 ug/kg 08/21/00 Toluene BDL 10 ug/kg 08/21/00 | Method 8270, Solid | | | • | • |
| Volatile Organic Compounds, Solid BDL 10 ug/kg 08/21/00 Acetone BDL 25 ug/kg 08/21/00 Methylene Chloride BDL 10 ug/kg 08/21/00 2 - Butanone BDL 10 ug/kg 08/21/00 1,1,1-Trichloroethane BDL 10 ug/kg 08/21/00 Trichloroethene BDL 10 ug/kg 08/21/00 4-Methyl-2-Pentanone 12 10 ug/kg 08/21/00 Toluene BDL 10 ug/kg 08/21/00 | Bis (2-ethylhexyl) phthalate | 1100 | 330 | ug/kg | 08/24/00 |
| Trichlorofluoromethane BDL 10 ug/kg 08/21/00 Acetone BDL 25 ug/kg 08/21/00 Methylene Chloride BDL 10 ug/kg 08/21/00 2 -Butanone BDL 10 ug/kg 08/21/00 1,1,1-Trichloroethane BDL 10 ug/kg 08/21/00 Trichloroethene BDL 10 ug/kg 08/21/00 4-Methyl-2-Pentanone 12 10 ug/kg 08/21/00 Toluene BDL 10 ug/kg 08/21/00 | Benzyl Alcohol | BDL | 330 | | 08/24/00 |
| Acetone BDL 25 ug/kg 08/21/00 Methylene Chloride BDL 10 ug/kg 08/21/00 2 -Butanone BDL 10 ug/kg 08/21/00 1,1,1-Trichloroethane BDL 10 ug/kg 08/21/00 Trichloroethene BDL 10 ug/kg 08/21/00 4-Methyl-2-Pentanone 12 10 ug/kg 08/21/00 Toluene BDL 10 ug/kg 08/21/00 | Volatile Organic Compounds, Solid | | | | |
| Methylene Chloride BDL 10 ug/kg 08/21/00 2 -Butanone BDL 10 ug/kg 08/21/00 1,1,1-Trichloroethane BDL 10 ug/kg 08/21/00 Trichloroethene BDL 10 ug/kg 08/21/00 4-Methyl-2-Pentanone 12 10 ug/kg 08/21/00 Toluene BDL 10 ug/kg 08/21/00 | Trichlorofluoromethane | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| 2 -Butanone BDL 10 ug/kg 08/21/00 1,1,1-Trichloroethane BDL 10 ug/kg 08/21/00 Trichloroethene BDL 10 ug/kg 08/21/00 4-Methyl-2-Pentanone 12 10 ug/kg 08/21/00 Toluene BDL 10 ug/kg 08/21/00 | Acetone | BDL | 25 | ug/kg | 08/21/00 |
| 1,1,1-Trichloroethane BDL 10 ug/kg 08/21/00 Trichloroethene BDL 10 ug/kg 08/21/00 4-Methyl-2-Pentanone 12 10 ug/kg 08/21/00 Toluene BDL 10 ug/kg 08/21/00 | Methylene Chloride | BDL | 10 | ug/kg | 08/21/00 |
| Trichloroethene BDL 10 ug/kg 08/21/00 4-Methyl-2-Pentanone 12 10 ug/kg 08/21/00 Toluene BDL 10 ug/kg 08/21/00 | | \mathtt{BDL} | 10 . | ug/kg | 08/21/00 |
| 4-Methyl-2-Pentanone 12 10 ug/kg 08/21/00 Toluene BDL 10 ug/kg 08/21/00 | | BDL | 10 | ug/kg - | 08/21/00 |
| Toluene BDL 10 ug/kg 08/21/00 | Trichloroethene | BDL | 10 | ug/kg | 08/21/00 |
| The state of the s | 4-Methyl-2-Pentanone | 12 | 10 | ug/kg | 08/21/00 |
| Tetrachoroethylene BDL 10 ug/kg 08/21/00 | Toluene | $\mathtt{BDL}^{}$ | 10 | ug/kg | 08/21/00 |
| | Tetrachoroethylene | BDL | 10 | ug/kg | 08/21/00 |
| Chlorobenzene BDL 10 ug/kg 08/21/00 | Chlorobenzene | BDL | 10 | ug/kg | |

Location Collected: Huntingdon Avenue, Waterbury, CT

◯ Date Sample Collected: 08/10/00

Sample Description: CC019/Solder Strip EAS Sample Number: 00080149-04

LIMS ID Number: AB09177
Date Sample Received: 08/10/00
Client Project Number: MAC0030.RC

| | | Detection | | Analysis |
|--------------|------|-----------|-------|----------|
| Parameter | Data | Limit | Units | Date |
| Ethylbenzene | BDL | 10 | ug/kg | 08/21/00 |
| m/p-Xylene | BDL | 10 | ug/kg | 08/21/00 |
| 0-Xylene | BDL | 10 | ug/kg | 08/21/00 |
| 1,4-Dioxane | 550 | 100 | ug/kg | 08/21/00 |
| Isobutanol | BDL | 50 | ug/kg | 08/21/00 |

Location Collected: Huntingdon Avenue, Waterbury, CT

Date Sample Collected: 08/10/00

Sample Description: CC020/Solder Strip EAS Sample Number: 00080149-05

LIMS ID Number: AB09178
Date Sample Received: 08/10/00
Client Project Number: MAC0030.RC

| | | Detection | | Analysis |
|-----------------------------------|----------------|-----------|----------------|----------|
| Parameter | Data | Limit | Units | Date |
| Cyanide, Leachable | BDL | 0.15 | mg/L | 08/18/00 |
| Cyanide, Solid | BDL | 5.0 | mg/kg | 08/18/00 |
| Sulfide-Total, Solid | BDL | 10 | mg/kg | 09/05/00 |
| Barium, Leachable | 0.19 | 0.005 | mg/L | 08/17/00 |
| Barium, Solid | 29 | 0.10 | mg/kg | 08/14/00 |
| Cadmium, Leachable | BDL | 0.005 | mg/L | 08/17/00 |
| Cadmium, Solid | 3.3 | 0.10 | mg/kg | 08/14/00 |
| Chromium, Leachable | BDL | 0.02 | mg/L | 08/17/00 |
| Chromium, Solid | 14 | 0.40 | mg/kg | 08/14/00 |
| Copper, Leachable | 0.14 | 0.01 | mg/L | 08/17/00 |
| Copper, Solid | 180 | 0.20 | mg/kg | 08/14/00 |
| Lead, Solid | 51 | 1.0 | mg/kg | 08/14/00 |
| Lead-Low Level, Leachable | \mathtt{BDL} | 0.005 | mg/L | 08/18/00 |
| Nickel, Leachable | 0.049 | 0.02 | mg/L | 08/17/00 |
| Nickel, Solid | 8.4 | 0.40 | mg/kg | 08/14/00 |
| Sulfide, Leachable | BDL | 1.0 | mg/L | 09/05/00 |
| Tin, Leachable | BDL | 0.01 | mg/L | 08/17/00 |
| Tin, Solid | 84 | 0.20 | mg/kg | 08/14/00 |
| Zinc, Leachable | 0.79 | 0.005 | mg/L | 08/17/00 |
| Zinc, Solid | 400 | 0.10 | mg/kg | 08/14/00 |
| BNA Extraction, Solid | Completed | | | 08/14/00 |
| EP Toxicity Leaching Procedure | Completed | | | 08/14/00 |
| Method 8270, Solid | | | | |
| Bis (2-ethylhexyl) phthalate | 1200 | 330 | ug/kg | 08/25/00 |
| Benzyl Alcohol | \mathtt{BDL} | 330 | ug/kg | 08/25/00 |
| Volatile Organic Compounds, Solid | | • | | * |
| Trichlorofluoromethane | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| Acetone | BDL | 25 | ug/kg | 08/21/00 |
| Methylene Chloride | BDL | 10 | ug/kg | 08/21/00 |
| 2 -Butanone | BDL | 10 | ug/kg | 08/21/00 |
| 1,1,1-Trichloroethane | BDL | 10 | ug/kg - | 08/21/00 |
| Trichloroethene | BDL | 10 | ug/kg | 08/21/00 |
| 4-Methyl-2-Pentanone | BDL | 10 . | ug/kg | 08/21/00 |
| Toluene | BDL | 10 | ug/kg | 08/21/00 |
| Tetrachoroethylene | BDL | 10 | ug/kg | 08/21/00 |
| Chlorobenzene | BDL | 10 . | ug/kg | 08/21/00 |
| • | | • | - - | |

Location Collected: Huntingdon Avenue, Waterbury, CT

Date Sample Collected: 08/10/00

Sample Description: CC020/Solder Strip EAS Sample Number: 00080149-05

LIMS ID Number: AB09178

Date Sample Received: 08/10/00

Client Project Number: MAC0030.RC

| | | Detection | - | Analysis |
|--------------|------|-----------|-------|----------|
| Parameter | Data | Limit | Units | Date |
| Ethylbenzene | 180 | 10 | ug/kg | 08/21/00 |
| m/p-Xylene | 650 | 10 | ug/kg | 08/21/00 |
| 0-Xylene | 170 | 10 | ug/kg | 08/21/00 |
| 1,4-Dioxane | 380 | 100 | ug/kg | 08/21/00 |
| Isobutanol | BDL | 50 | ug/kg | 08/21/00 |

Location Collected: Huntingdon Ave., Waterbury, CT

Date Sample Collected: 08/10/00 Sample Description: CC011/NMP EAS Sample Number: 00080149-06

LIMS ID Number: AB09179 Date Sample Received: 08/10/00 Client Project Number: MAC0030.RC

| Parameter | Data | Detection Limit | Units | Analysis Date |
|-----------------------------------|----------------|--------------------|----------------|------------------|
| Cyanide, Leachable | BDL | 0.15 | mg/L | 08/18/00 |
| Cyanide, Solid | BDL | 5.0 | mg/kg | 08/18/00 |
| Sulfide-Total, Solid | 20 | 10 | mg/kg | 09/05/00 |
| Arsenic, Solid | BDL | 2.0 | mg/kg mg/kg | 08/14/00 |
| Arsenic-Low Level, Leachable | BDL | 0.005 | mg/L | 08/21/00 |
| Barium, Leachable | 0.33 | 0.005 | mg/L | 08/17/00 |
| Barium, Solid | 58 | 0.10 | mg/kg | 08/14/00 |
| Cadmium, Leachable | BDL | 0.005 | mg/L | 08/17/00 |
| Cadmium, Solid | 3.5 | 0.10 | mg/kg | 08/14/00 |
| Chromium, Leachable | 0.11 | 0.02 | mg/L | 08/17/00 |
| Chromium, Solid | 52 | 0.40 | mg/kg | 08/14/00 |
| Copper, Leachable | 0.67 | 0.01 | mg/L | 08/17/00 |
| Copper, Solid | 170 | 0.20 | mg/kg | 08/14/00 |
| Lead, Solid | 62 | 1.0 | mg/kg | 08/14/00 |
| Lead-Low Level, Leachable | 0.049 | 0.005 | mg/L | 08/18/00 |
| Nickel, Leachable | 0.55 | 0.02 | mg/L | 08/17/00 |
| Nickel, Solid | 49 | 0.40 | mg/kg | 08/14/00 |
| Sulfide, Leachable | BDL | 1.0 | mg/L | 09/05/00 |
| Tin, Leachable | BDL | 0.01 | mg/L | 08/17/00 |
| Tin, Solid | 190 | 0.20 | mg/kg | 08/14/00 |
| Zinc, Leachable | 5.4 | 0.005 | mg/L | 08/17/00 |
| Zinc, Solid | 470 | 0.10 | mg/kg | 08/14/00 |
| BNA Extraction, Solid | Completed | • | | 08/14/00 |
| EP Toxicity Leaching Procedure | Completed | | | 08/14/00 |
| Method 8270, Solid | _ | • | | |
| Bis (2-ethylhexyl) phthalate | 1400 | 330 | ug/kg | 08/25/00 |
| Benzyl Alcohol | BDL | 330 | ug/kg | 08/25/00 |
| Volatile Organic Compounds, Solid | • | | 0 0 | |
| Trichlorofluoromethane | BDL | 10 | ug/kg | 08/21/00 |
| Acetone | BDL | 25 | ug/kg | 08/21/00 |
| Methylene Chloride | BDL | 10 | ug/kg | 08/21/00 |
| 2 -Butanone | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| 1,1,1-Trichloroethane | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| Trichloroethene | BDL | 10 | ug/kg | 08/21/00 |
| Toluene | BDL | 10 | ug/kg | 08/21/00 |
| Tetrachoroethylene | BDL | 10 | ug/kg | 08/21/00 |
| | | | - • | |

Location Collected: Huntingdon Ave., Waterbury, CT

Date Sample Collected: 08/10/00 Sample Description: CC011/NMP EAS Sample Number: 00080149-06

LIMS ID Number: AB09179
Date Sample Received: 08/10/00
Client Project Number: MAC0030.RC

| | | Detection | | Analysis |
|---------------|------|-----------|-------|----------|
| Parameter | Data | Limit | Units | Date |
| Chlorobenzene | BDL | 10 | ug/kg | 08/21/00 |
| Ethylbenzene | BDL | 10 | ug/kg | 08/21/00 |
| m/p-Xylene | BDL | 10 | ug/kg | 08/21/00 |
| 0-Xylene | BDL | 10 | ug/kg | 08/21/00 |
| Isobutanol | BDL | 50 | ug/kg | 08/21/00 |

Location Collected: Huntingdon Ave., Waterbury, CT

Date Sample Collected: 08/10/00 Sample Description: CC012/NMP EAS Sample Number: 00080149-07

LIMS ID Number: AB09180
Date Sample Received: 08/10/00

| Parameter | Data | DetectionLimit | Units | Analysis Date |
|-----------------------------------|----------------|----------------|---------|------------------|
| Cyanide, Leachable | BDL | 0.15 | mg/L | 08/18/00 |
| Cyanide, Solid | \mathtt{BDL} | 5.0 | mg/kg | 08/18/00 |
| Sulfide-Total, Solid | \mathtt{BDL} | 10 | mg/kg | 09/05/00 |
| Arsenic, Solid | 2.3 | 2.0 | mg/kg | 08/14/00 |
| Arsenic-Low Level, Leachable | \mathtt{BDL} | 0.005 | mg/L | 08/21/00 |
| Barium, Leachable | 0.31 | 0.005 | mg/L | 08/17/00 |
| Barium, Solid | 45 | 0.10 | mg/kg | 08/14/00 |
| Cadmium, Leachable | BDL | 0.005 | mg/L | 08/17/00 |
| Cadmium, Solid | 1.7 | 0.10 | mg/kg | 08/14/00 |
| Chromium, Leachable | \mathtt{BDL} | 0.02 | mg/L | 08/17/00 |
| Chromium, Solid | 5.6 | 0.40 | mg/kg | 08/14/00 |
| Copper, Leachable | 0.058 | 0.01 | mg/L | 08/17/00 |
| Copper, Solid | 9.3 | 0.20 | mg/kg | 08/14/00 |
| Lead, Solid | 2.3 | 1.0 | mg/kg | 08/14/00 |
| Lead-Low Level, Leachable | BDL | 0.005 | mg/L | 08/18/00 |
| Nickel, Leachable | 0.038 | 0.02 | mg/L | 08/17/00 |
| Nickel, Solid | 5.2 | 0.40 | mg/kg | 08/14/00 |
| Sulfide, Leachable | BDL | 1.0 | mg/L | 09/05/00 |
| Tin, Leachable | BDL | 0.01 | mg/L | 08/17/00 |
| Tin, Solid | 4.8 | 0.20 | mg/kg | 08/14/00 |
| Zinc, Leachable | 0.069 | 0.005 | mg/L | 08/17/00 |
| Zinc, Solid | 12 | 0.10 | mg/kg | 08/14/00 |
| BNA Extraction, Solid | Completed | 1 | , | 08/14/00 |
| EP Toxicity Leaching Procedure | Completed | ł | | 08/14/00 |
| Method 8270, Solid | | | | · |
| Bis (2-ethylhexyl) phthalate | BDL | 330 | ug/kg | 08/28/00 |
| Benzyl Alcohol | BDL | 330 | ug/kg | 08/28/00 |
| Volatile Organic Compounds, Solid | | | | |
| Trichlorofluoromethane | BDL | 10 | ug/kg | 08/21/00 |
| Acetone | BDL | 25 | ug/kg | 08/21/00 |
| Methylene Chloride | BDL | 10 | ug/kg - | 08/21/00 |
| 2 -Butanone | BDL | 10 | ug/kg | 08/21/00 |
| 1,1,1-Trichloroethane | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| Trichloroethene | BDL | 10 | ug/kg | 08/21/00 |
| Toluene | BDL | 10 | ug/kg | 08/21/00 |
| Tetrachoroethylene | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| | | | | |

Location Collected: Huntingdon Ave., Waterbury, CT

Date Sample Collected: 08/10/00 Sample Description: CC012/NMP EAS Sample Number: 00080149-07

LIMS ID Number: AB09180 Date Sample Received: 08/10/00

| Parameter | | Analysis | | |
|---------------|----------------|----------|---------|----------|
| | Data | Limit | Units | Date |
| Chlorobenzene | BDL | 10 | ug/kg | 08/21/00 |
| Ethylbenzene | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| m/p-Xylene | BDL | 10 | ug/kg | 08/21/00 |
| 0-Xylene | \mathtt{BDL} | 10 | ug/kg · | 08/21/00 |
| Isobutanol | BDL | 50 | ug/kg | 08/21/00 |

Location Collected: Huntingdon Ave., Waterbury, CT

Date Sample Collected: 08/10/00 Sample Description: CC013/NMP EAS Sample Number: 00080149-08

LIMS ID Number: AB09181 Date Sample Received: 08/10/00 Client Project Number: MAC0030.RC

| Parameter | Data | Detection Limit | Units | Analysis Date |
|-----------------------------------|----------------|--------------------|---------|------------------|
| Cyanide, Leachable | BDL | 0.15 | mg/L | 08/18/00 |
| Cyanide, Solid | BDL | 5.0 | mg/kg | 08/18/00 |
| Sulfide-Total, Solid | BDL | 10 | mg/kg | 09/05/00 |
| Arsenic, Solid | 3.0 | 2.0 | mg/kg | 08/14/00 |
| Arsenic-Low Level, Leachable | \mathtt{BDL} | 0.005 | mg/L | 08/21/00 |
| Barium, Leachable | 0.19 | 0.005 | mg/L | 08/17/00 |
| Barium, Solid | 26 | 0.10 | mg/kg | 08/14/00 |
| Cadmium, Leachable | \mathtt{BDL} | 0.005 | mg/L | 08/17/00 |
| Cadmium, Solid | 1.8 | 0.10 | mg/kg | 08/14/00 |
| Chromium, Leachable | BDL | 0.02 | mg/L | 08/17/00 |
| Chromium, Solid | 8.6 | 0.40 | mg/kg | 08/14/00 |
| Copper, Leachable | BDL | 0.01 | mg/L | 08/17/00 |
| Copper, Solid | 11 | 0.20 | mg/kg | 08/14/00 |
| Lead, Solid | 4.4 | 1.0 | mg/kg | 08/14/00 |
| Lead-Low Level, Leachable | BDL | 0.005 | mg/L | 08/18/00 |
| Nickel, Leachable | 0.023 | 0.02 | mg/L | 08/17/00 |
| Nickel, Solid | 7.0 | 0.40 | mg/kg | 08/14/00 |
| Sulfide, Leachable | BDL | 1.0 | mg/L | 09/05/00 |
| Tin, Leachable | BDL | 0.01 | mg/L | 08/17/00 |
| Tin, Solid | 2.1 | 0.20 | mg/kg | 08/14/00 |
| Zinc, Leachable | \mathtt{BDL} | 0.005 | mg/L | 08/17/00 |
| Zinc, Solid | 14 | 0.10 | mg/kg | 08/14/00 |
| BNA Extraction, Solid | Completed | • | | 08/14/00 |
| EP Toxicity Leaching Procedure | Completed | | | 08/14/00 |
| Method 8270, Solid | | | | |
| Bis (2-ethylhexyl) phthalate | BDL | 330 | ug/kg | 08/28/00 |
| Benzyl Alcohol | BDL | 330 | ug/kg | 08/28/00 |
| Volatile Organic Compounds, Solid | | , | | |
| Trichlorofluoromethane | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| Acetone | BDL | 25 | ug/kg | 08/21/00 |
| Methylene Chloride | BDL | 10 | ug/kg - | 08/21/00 |
| 2 -Butanone | BDL | 10 | ug/kg | 08/21/00 |
| 1,1,1-Trichloroethane | BDL | 10 | ug/kg | 08/21/00 |
| Trichloroethene | BDL | 10 | ug/kg | 08/21/00 |
| Toluene | BDL | 10 | ug/kg | 08/21/00 |
| Tetrachoroethylene | BDL | 10 . | ug/kg | 08/21/00 |
| | | | - 3 | · - - |

Location Collected: Huntingdon Ave., Waterbury, CT

Date Sample Collected: 08/10/00 Sample Description: CC013/NMP EAS Sample Number: 00080149-08

LIMS ID Number: AB09181 Date Sample Received: 08/10/00

| Parameter | Data | Detection Limit | Units | Analysis Date |
|---------------|------|--------------------|-------|------------------|
| Chlorobenzene | BDL | 10 | | |
| Ethylbenzene | BDL | 10 | ug/kg | 08/21/00 |
| m/p-Xylene | BDL | 10 | ug/kg | 08/21/00 |
| 0-Xylene | BDL | 10 | ug/kg | 08/21/00 |
| Isobutanol | BDL | 50 | ug/kg | 08/21/00 |
| isobutanoi | בעם | . 50 | ug/kg | 08/21/00 |

Location Collected: Huntingdon Ave., Waterbury, CT

Date Sample Collected: 08/10/00 Sample Description: CC014/NMP EAS Sample Number: 00080149-09

LIMS ID Number: AB09182

Date Sample Received: 08/10/00

Client Pariet Number: MAC0020

| D | 7 | Detection | | Analysis |
|-----------------------------------|----------------|-----------|--------------|-------------|
| Parameter | Data | Limit | Units | <u>Date</u> |
| Cyanide, Leachable | \mathtt{BDL} | 0.15 | mg/L | 08/18/00 |
| Cyanide, Solid | \mathtt{BDL} | 5.0 | mg/kg | 08/18/00 |
| Sulfide-Total, Solid | BDL | 10 | mg/kg | 09/05/00 |
| Arsenic, Solid | \mathtt{BDL} | 2.0 | mg/kg | 08/14/00 |
| Arsenic-Low Level, Leachable | \mathtt{BDL} | 0.005 | ${ m mg/L}$ | 08/21/00 |
| Barium, Leachable | 0.21 | 0.005 | ${ m mg/L}$ | 08/17/00 |
| Barium, Solid | 50 | 0.10 | mg/kg | 08/14/00 |
| Cadmium, Leachable | BDL | 0.005 | ${	t mg/L}$ | 08/17/00 |
| Cadmium, Solid | 2.8 | 0.10 | mg/kg | 08/14/00 |
| Chromium, Leachable | \mathtt{BDL} | 0.02 | ${	t mg/L}$ | 08/17/00 |
| Chromium, Solid | 49 | 0.40 | mg/kg | 08/14/00 |
| Copper, Leachable | 0.30 | 0.01 | ${\sf mg/L}$ | 08/17/00 |
| Copper, Solid | 130 | 0.20 | mg/kg | 08/14/00 |
| Lead, Solid | 45 | 1.0 | mg/kg | 08/14/00 |
| Lead-Low Level, Leachable | BDL | 0.005 | mg/L | 08/18/00 |
| Nickel, Leachable | 0.53 | 0.02 | mg/L | 08/17/00 |
| Nickel, Solid | 50 | 0.40 | mg/kg | 08/14/00 |
| Sulfide, Leachable | BDL | 1.0 | ${ m mg/L}$ | 09/05/00 |
| Tin, Leachable | \mathtt{BDL} | 0.01 | mg/L | 08/17/00 |
| Tin, Solid | 42 | 0.20 | mg/kg | 08/14/00 |
| Zinc, Leachable | 5.0 | 0.005 | ${ m mg/L}$ | 08/17/00 |
| Zinc, Solid | 510 | 0.10 | mg/kg | 08/14/00 |
| BNA Extraction, Solid | Complete | d | | 08/14/00 |
| EP Toxicity Leaching Procedure | Complete | d | | 08/14/00 |
| Method 8270, Solid | | | - | |
| Bis (2-ethylhexyl) phthalate | \mathtt{BDL} | 330 | ug/kg | 08/24/00 |
| Benzyl Alcohol | \mathtt{BDL} | .330 | ug/kg | 08/24/00 |
| Volatile Organic Compounds, Solid | | | | |
| Trichlorofluoromethane | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| Acetone | \mathtt{BDL} | 25 | ug/kg | 08/21/00 |
| Methylene Chloride | \mathtt{BDL} | 10 | ug/kg - | 08/21/00 |
| 2 -Butanone | BDL | 10 | ug/kg | 08/21/00 |
| 1,1,1-Trichloroethane | BDL | 10 | ug/kg | 08/21/00 |
| Trichloroethene | BDL | 10 | ug/kg | 08/21/00 |
| Toluene | BDL | 10 | ug/kg | 08/21/00 |
| Tetrachoroethylene | \mathtt{BDL} | 10 . | ug/kg | 08/21/00 |
| | | | | - |

Location Collected: Huntingdon Ave., Waterbury, CT

Date Sample Collected: 08/10/00 Sample Description: CC014/NMP EAS Sample Number: 00080149-09

LIMS ID Number: AB09182 Date Sample Received: 08/10/00

| Parameter | Data | Detection Limit | Units | Analysis Date |
|---------------|----------------|--------------------|-------|------------------|
| Chlorobenzene | BDL | 10 | ug/kg | 08/21/00 |
| Ethylbenzene | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| m/p-Xylene | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| 0-Xylene | BDL | 10 | ug/kg | 08/21/00 |
| Isobutanol | \mathtt{BDL} | 50 | ug/kg | 08/21/00 |

Location Collected: Huntingdon Ave., Waterbury, CT

Date Sample Collected: 08/10/00 Sample Description: CC015/NMP EAS Sample Number: 00080149-10

LIMS ID Number: AB09183
Date Sample Received: 08/10/00
Client Project Number: MAC0030.RC

| _ | | | Detection | | Analysis |
|-----------------------------------|------------|----------------|---------------------------------------|-------------|----------|
| Parameter | | Data | Limit | Units | Date |
| Cyanide, Leachable | • | \mathtt{BDL} | 0.15 | mg/L | 08/18/00 |
| Cyanide, Solid | | BDL | 5.0 | mg/kg | 08/18/00 |
| Sulfide-Total, Solid | | 16 | 10 | mg/kg | 09/05/00 |
| Arsenic, Solid | - | 2.1 | 2.0 | mg/kg | 08/14/00 |
| Arsenic-Low Level, Leachable | | \mathtt{BDL} | 0.005 | mg/L | 08/21/00 |
| Barium, Leachable | | 0.35 | 0.005 | ${	t mg/L}$ | 08/17/00 |
| Barium, Solid | | 60 | 0.10 | mg/kg | 08/14/00 |
| Cadmium, Leachable | | BDL | 0.005 | ${ m mg/L}$ | 08/17/00 |
| Cadmium, Solid | | 2.6 | 0.10 | mg/kg | 08/14/00 |
| Chromium, Leachable | 4 | \mathtt{BDL} | 0.02 | mg/L | 08/17/00 |
| Chromium, Solid | | 16 | 0.40 | mg/kg | 08/14/00 |
| Copper, Leachable | | 0.034 | 0.01 | mg/L | 08/17/00 |
| Copper, Solid | | 56 | 0.20 | mg/kg | 08/14/00 |
| Lead, Solid | | 42 | 1.0 | mg/kg | 08/14/00 |
| Lead-Low Level, Leachable | | BDL | 0.005 | ${ m mg/L}$ | 08/18/00 |
| Nickel, Leachable | | 0.055 | 0.02 | mg/L | 08/17/00 |
| Nickel, Solid | | 14 | 0.40 | mg/kg | 08/14/00 |
| Sulfide, Leachable | | BDL | 1.0 | mg/L | 09/05/00 |
| Tin, Leachable | | \mathtt{BDL} | 0.01 | m mg/L | 08/17/00 |
| Tin, Solid | 94 - A - A | 300 | 0.20 | mg/kg | 08/14/00 |
| Zinc, Leachable | | 0.094 | 0.005 | ${ m mg/L}$ | 08/17/00 |
| Zinc, Solid | | 40 | 0.10 | mg/kg | 08/14/00 |
| BNA Extraction, Solid | | Completed | | | 08/14/00 |
| EP Toxicity Leaching Procedure | | Completed | , , , , , , , , , , , , , , , , , , , | | 08/14/00 |
| Method 8270, Solid | | | | | |
| Bis (2-ethylhexyl) phthalate | | BDL | 330 | ug/kg | 08/25/00 |
| Benzyl Alcohol | | BDL | 330 | ug/kg | 08/25/00 |
| Volatile Organic Compounds, Solid | • | | | | |
| Trichlorofluoromethane | | BDL | 10 | ug/kg | 08/21/00 |
| Acetone | | BDL | 25 · | ug/kg | 08/21/00 |
| Methylene Chloride | | BDL | 10 | ug/kg - | 08/21/00 |
| 2 -Butanone | | BDL | 10 | ug/kg | 08/21/00 |
| 1,1,1-Trichloroethane | | BDL | . 10 | ug/kg | 08/21/00 |
| Trichloroethene | | BDL | 10 | ug/kg | 08/21/00 |
| Toluene | | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| Tetrachoroethylene | * | BDL | 10 | ug/kg | 08/21/00 |
| | | | | | |

Location Collected: Huntingdon Ave., Waterbury, CT

Date Sample Collected: 08/10/00 Sample Description: CC015/NMP EAS Sample Number: 00080149-10

LIMS ID Number: AB09183 Date Sample Received: 08/10/00 Client Project Number: MAC0030.RC

| | | Detection | | Analysis |
|---------------|----------------|-----------|-------|----------|
| Parameter | <u>Data</u> | Limit | Units | Date |
| Chlorobenzene | BDL | 10 | ug/kg | 08/21/00 |
| Ethylbenzene | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| m/p-Xylene | BDL | 10 | ug/kg | 08/21/00 |
| 0-Xylene | BDL | 10 | ug/kg | 08/21/00 |
| Isobutanol | BDL | 50 | na/ka | 08/21/00 |

Location Collected: Huntingdon Ave., Waterbury, CT

Date Sample Collected: 08/10/00 Sample Description: CC021/NMP EAS Sample Number: 00080149-11 LIMS ID Number: AB09184 Date Sample Received: 08/10/00 Client Project Number: MAC0030.RC

| | | | | * |
|-----------------------------------|----------------|-----------|-------|----------|
| | | Detection | | Analysis |
| Parameter | Data | Limit | Units | Date |
| Cyanide, Leachable | BDL | 0.15 | mg/L | 08/18/00 |
| Cyanide, Solid | \mathtt{BDL} | 5.0 | mg/kg | 08/18/00 |
| Sulfide-Total, Solid | 60 | 10 | mg/kg | 09/05/00 |
| Arsenic, Solid | \mathtt{BDL} | 2.0 | mg/kg | 08/14/00 |
| Arsenic-Low Level, Leachable | \mathtt{BDL} | 0.005 | mg/L | 08/21/00 |
| Barium, Leachable | 0.39 | 0.005 | mg/L | 08/17/00 |
| Barium, Solid | 53 | 0.10 | mg/kg | 08/14/00 |
| Cadmium, Leachable | \mathtt{BDL} | 0.005 | mg/L | 08/17/00 |
| Cadmium, Solid | 2.5 | 0.10 | mg/kg | 08/14/00 |
| Chromium, Leachable | 0.031 | 0.02 | mg/L | 08/17/00 |
| Chromium, Solid | 51 | 0.40 | mg/kg | 08/14/00 |
| Copper, Leachable | 0.62 | 0.01 | mg/L | 08/17/00 |
| Copper, Solid | 160 | 0.20 | mg/kg | 08/14/00 |
| Lead, Solid | 56 | 1.0 | mg/kg | 08/14/00 |
| Lead-Low Level, Leachable | 0.018 | 0.005 | mg/L | 08/18/00 |
| Nickel, Leachable | 0.72 | 0.02 | mg/L | 08/17/00 |
| Nickel, Solid | 53 | 0.40 | mg/kg | 08/14/00 |
| Sulfide, Leachable | \mathtt{BDL} | 1.0 | mg/L | 09/05/00 |
| Tin, Leachable | BDL | 0.01 | mg/L | 08/17/00 |
| Tin, Solid | 120 | 0.20 | mg/kg | 08/14/00 |
| Zinc, Leachable | 7.1 | 0.005 | mg/L | 08/17/00 |
| Zinc, Solid | 500 | 0.10 | mg/kg | 08/14/00 |
| BNA Extraction, Solid | Completed | | | 08/14/00 |
| EP Toxicity Leaching Procedure | Completed | | | 08/14/00 |
| Method 8270, Solid | | | | |
| Bis (2-ethylhexyl) phthalate | \mathtt{BDL} | 330 | ug/kg | 08/28/00 |
| Benzyl Alcohol | 1900 | 330 | ug/kg | 08/28/00 |
| Volatile Organic Compounds, Solid | • | | | |
| Trichlorofluoromethane | BDL | 10 | ug/kg | 08/21/00 |
| Acetone | BDL | 25 | ug/kg | 08/21/00 |
| Methylene Chloride | BDL | 10 | ug/kg | 08/21/00 |
| 2 -Butanone | BDL | 10 | ug/kg | 08/21/00 |
| 1,1,1-Trichloroethane | BDL | 10 | ug/kg | 08/21/00 |
| Trichloroethene | BDL | 10 | ug/kg | 08/21/00 |
| Toluene | BDL | 10 | ug/kg | 08/21/00 |
| Tetrachoroethylene | BDL | 10 | ug/kg | 08/21/00 |

Location Collected: Huntingdon Ave., Waterbury, CT

Date Sample Collected: 08/10/00 Sample Description: CC021/NMP EAS Sample Number: 00080149-11

LIMS ID Number: AB09184 Date Sample Received: 08/10/00

| Parameter | Data | Detection Limit | Units | Analysis Date |
|---------------|----------------|--------------------|-------|------------------|
| Chlorobenzene | BDL | 10 | ug/kg | 08/21/00 |
| Ethylbenzene | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| m/p-Xylene | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| 0-Xylene | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| Isobutanol | BDL | 50 | ug/kg | 08/21/00 |

Location Collected: Huntingdon Ave., Waterbury, CT

Date Sample Collected: 08/10/00 Sample Description: CC022/NMP EAS Sample Number: 00080149-12 LIMS ID Number: AB09185

Date Sample Received: 08/10/00 Client Project Number: MAC0030.RC

| | | Detection | | Analysis |
|-----------------------------------|----------------|-----------|--------|-------------|
| Parameter | Data | Limit | Units | <u>Date</u> |
| Cyanide, Leachable | BDL | 0.15 | mg/L | 08/18/00 |
| Cyanide, Solid | \mathtt{BDL} | 5.0 | mg/kg | 08/18/00 |
| Sulfide-Total, Solid | 36 | 10 | mg/kg | 09/05/00 |
| Arsenic, Solid | 7.6 | 2.0 | mg/kg | 08/14/00 |
| Arsenic-Low Level, Leachable | \mathtt{BDL} | 0.005 | mg/L | 08/21/00 |
| Barium, Leachable | 0.27 | 0.005 | m mg/L | 08/17/00 |
| Barium, Solid | 46 | 0.10 | mg/kg | 08/14/00 |
| Cadmium, Leachable | BDL | 0.005 | mg/L | 08/17/00 |
| Cadmium, Solid | 2.5 | 0.10 | mg/kg | 08/14/00 |
| Chromium, Leachable | 0.87 | 0.02 | mg/L | 08/17/00 |
| Chromium, Solid | 50 | 0.40 | mg/kg | 08/14/00 |
| Copper, Leachable | 0.42 | 0.01 | mg/L | 08/17/00 |
| Copper, Solid | 170 | 0.20 | mg/kg | 08/14/00 |
| ✓ Lead, Solid | . 46 | 1.0 | mg/kg | 08/14/00 |
| Lead-Low Level, Leachable | 0.008 | 0.005 | mg/L | 08/18/00 |
| Nickel, Leachable | 0.67 | 0.02 | mg/L | 08/17/00 |
| Nickel, Solid | 52 | 0.40 | mg/kg | 08/14/00 |
| Sulfide, Leachable | \mathtt{BDL} | 1.0 | mg/L | 09/05/00 |
| Tin, Leachable | BDL | 0.01 | mg/L | 08/17/00 |
| Tin, Solid | 160 | 0.20 | mg/kg | 08/14/00 |
| Zinc, Leachable | 6.4 | 0.005 | mg/L | 08/17/00 |
| Zinc, Solid | 500 | 0.10 | mg/kg | 08/14/00 |
| BNA Extraction, Solid | Completed | | | 08/16/00 |
| EP Toxicity Leaching Procedure | Completed | | | 08/14/00 |
| Method 8270, Solid | | | | |
| Bis (2-ethylhexyl) phthalate | 690 | 330 | ug/kg | 08/25/00 |
| Benzyl Alcohol | BDL | 330 | ug/kg | 08/25/00 |
| Volatile Organic Compounds, Solid | | | | |
| Trichlorofluoromethane | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| Acetone | BDL | 25 . | ug/kg | 08/21/00 |
| Methylene Chloride | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| 2 -Butanone | BDL | 10 | ug/kg | 08/21/00 |
| 1,1,1-Trichloroethane | BDL | 10 | ug/kg | 08/21/00 |
| Trichloroethene | BDL | 10 | ug/kg | 08/21/00 |
| Toluene | BDL | 10 | ug/kg | 08/21/00 |
| Tetrachoroethylene | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| | | | - • | |

Location Collected: Huntingdon Ave., Waterbury, CT

Date Sample Collected: 08/10/00 Sample Description: CC022/NMP EAS Sample Number: 00080149-12

LIMS ID Number: AB09185
Date Sample Received: 08/10/00
Client Project Number: MAC0030.RC

| | | Detection | | |
|---------------|------|-----------|-------|----------|
| Parameter | Data | Limit | Units | Date |
| Chlorobenzene | BDL | 10 | ug/kg | 08/21/00 |
| Ethylbenzene | BDL | 10 | ug/kg | 08/21/00 |
| m/p-Xylene | BDL | 10 | ug/kg | 08/21/00 |
| 0-Xylene | BDL | 10 | ug/kg | 08/21/00 |
| Isobutanol | BDL | 50 | ug/kg | 08/21/00 |

Location Collected: Huntingdon Ave., Waterbury, CT

Date Sample Collected: 08/10/00 Sample Description: CC023/NMP EAS Sample Number: 00080149-13

LIMS ID Number: AB09186
Date Sample Received: 08/10/00
Client Project Number: MAC0030.RC

| Parameter | Data | Detection Limit | Units | Analysis Date |
|-----------------------------------|-----------|--------------------|--------|------------------|
| Cyanide, Leachable | BDL | 0.15 | mg/L | 08/18/00 |
| Cyanide, Solid | BDL | 5.0 | mg/kg | 08/18/00 |
| Sulfide-Total, Solid | BDL | 10 | mg/kg | 09/05/00 |
| Arsenic, Solid | BDL | 2.0 | mg/kg | 08/14/00 |
| Arsenic-Low Level, Leachable | BDL | 0.005 | mg/L | 08/21/00 |
| Barium, Leachable | 0.37 | 0.005 | m mg/L | 08/17/00 |
| Barium, Solid | 52 | 0.10 | mg/kg | 08/14/00 |
| Cadmium, Leachable | BDL | 0.005 | mg/L | 08/17/00 |
| Cadmium, Solid | 2.7 | 0.10 | mg/kg | 08/14/00 |
| Chromium, Leachable | 0.11 | 0.02 | mg/L | 08/17/00 |
| Chromium, Solid | 54 | 0.40 | mg/kg | 08/14/00 |
| Copper, Leachable | 0.45 | 0.01 | mg/L | 08/17/00 |
| Copper, Solid | 180 | 0.20 | mg/kg | 08/14/00 |
| Lead, Solid | 57 | 1.0 | mg/kg | 08/14/00 |
| Lead-Low Level, Leachable | 0.0058 | 0.005 | mg/L | 08/18/00 |
| Nickel, Leachable | 0.87 | 0.02 | mg/L | 08/17/00 |
| Nickel, Solid | . 54 | 0.40 | mg/kg | 08/14/00 |
| Sulfide, Leachable | BDL | 1.0 | mg/L | 09/05/00 |
| Tin, Leachable | BDL | 0.01 | mg/L | 08/17/00 |
| Tin, Solid | 180 | 0.20 | mg/kg | 08/14/00 |
| Zinc, Leachable | 7.6 | 0.005 | mg/L | 08/17/00 |
| Zinc, Solid | 540 | 0.10 | mg/kg | 08/14/00 |
| BNA Extraction, Solid | Completed | • | | 08/16/00 |
| EP Toxicity Leaching Procedure | Completed | | | 08/14/00 |
| Method 8270, Solid | | | | |
| Bis (2-ethylhexyl) phthalate | 1100 | 330 | ug/kg | 08/25/00 |
| Benzyl Alcohol | BDL | 330 | ug/kg | 08/25/00 |
| Volatile Organic Compounds, Solid | | | | · |
| Trichlorofluoromethane | BDL | 10 | ug/kg | 08/21/00 |
| Acetone | BDL | 25 | ug/kg | 08/21/00 |
| Methylene Chloride | BDL | 10 | ug/kg | 08/21/00 |
| 2 -Butanone | BDL | 10 | ug/kg | 08/21/00 |
| 1,1,1-Trichloroethane | BDL | 10 | ug/kg | 08/21/00 |
| Trichloroethene | BDL | 10 | ug/kg | 08/21/00 |
| Toluene | BDL | 10 | ug/kg | 08/21/00 |
| Tetrachoroethylene | BDL | 10 | ug/kg | 08/21/00 |

Location Collected: Huntingdon Ave., Waterbury, CT

→ Date Sample Collected: 08/10/00
Sample Description: CC023/NMP
EAS Sample Number: 00080149-13

LIMS ID Number: AB09186
Date Sample Received: 08/10/00
Client Project Number: MAC0030.RC

| | Detection | | | Analysis |
|---------------|----------------|-------|-------|----------|
| Parameter | Data | Limit | Units | Date |
| Chlorobenzene | BDL | 10 | ug/kg | 08/21/00 |
| Ethylbenzene | BDL | 10 | ug/kg | 08/21/00 |
| m/p-Xylene | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| 0-Xylene | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| Isobutanol | BDL | 50 | ug/kg | 08/21/00 |

Location Collected: Huntingdon Ave., Waterbury, CT

Date Sample Collected: 08/10/00 Sample Description: CC024/NMP EAS Sample Number: 00080149-14

LIMS ID Number: AB09187 Date Sample Received: 08/10/00 Client Project Number: MAC0030.RC

| Parameter | Data | Detection Limit | Units | Analysis Date |
|-----------------------------------|----------------|-----------------|-------------|------------------|
| Cyanide, Leachable | BDL | 0.15 | mg/L | 08/18/00 |
| Cyanide, Solid | BDL | 5.0 | mg/kg | 08/18/00 |
| Sulfide-Total, Solid | BDL | 10 | mg/kg | 09/05/00 |
| Arsenic, Solid | BDL | 2.0 | mg/kg | 08/14/00 |
| Arsenic-Low Level, Leachable | BDL | 0.005 | mg/L | 08/21/00 |
| Barium, Leachable | 0.17 | 0.005 | mg/L | 08/17/00 |
| Barium, Solid | 53 | 0.10 | mg/kg | 08/14/00 |
| Cadmium, Leachable | \mathtt{BDL} | 0.005 | mg/L | 08/17/00 |
| Cadmium, Solid | 2.9 | 0.10 | mg/kg | 08/14/00 |
| Chromium, Leachable | 0.40 | 0.02 | mg/L | 08/17/00 |
| Chromium, Solid | 49 | 0.40 | mg/kg | 08/14/00 |
| Copper, Leachable | BDL | 0.01 | mg/L | 08/17/00 |
| Copper, Solid | 120 | 0.20 | mg/kg | 08/14/00 |
| Lead, Solid | 42 | 1.0 | mg/kg | 08/14/00 |
| Lead-Low Level, Leachable | BDL | 0.005 | mg/L | 08/18/00 |
| Nickel, Leachable | BDL | 0.02 | mg/L | 08/17/00 |
| Nickel, Solid | 58 | 0.40 | mg/kg | 08/14/00 |
| Sulfide, Leachable | \mathtt{BDL} | 1.0 | ${ m mg/L}$ | 09/05/00 |
| Tin, Leachable | BDL | 0.01 | mg/L | 08/17/00 |
| Tin, Solid | 37 | 0.20 | mg/kg | 08/14/00 |
| Zinc, Leachable | BDL | 0.005 | mg/L | 08/17/00 |
| Zinc, Solid | 500 | 0.10 | mg/kg | 08/14/00 |
| BNA Extraction, Solid | Complete | d | | 08/16/00 |
| EP Toxicity Leaching Procedure | Complete | d | | 08/14/00 |
| Method 8270, Solid | _ | | | |
| Bis (2-ethylhexyl) phthalate | 2400 | 330 | ug/kg | 08/25/00 |
| Benzyl Alcohol | \mathtt{BDL} | 330 | ug/kg | 08/25/00 |
| Volatile Organic Compounds, Solid | | | | |
| Trichlorofluoromethane | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| Acetone | BDL | 25 | ug/kg | 08/21/00 |
| Methylene Chloride | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| 2 -Butanone | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| 1,1,1-Trichloroethane | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| Trichloroethene | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| Toluene | BDL | 10 | ug/kg | 08/21/00 |
| Tetrachoroethylene | BDL | 10 . | ug/kg | 08/21/00 |
| | | | | |

Location Collected: Huntingdon Ave., Waterbury, CT

Date Sample Collected: 08/10/00 Sample Description: CC024/NMP EAS Sample Number: 00080149-14

LIMS ID Number: AB09187 Date Sample Received: 08/10/00 Client Project Number: MAC0030.RC

| | * | Detection | | | |
|---------------|----------------|-----------|-------|----------|--|
| Parameter | Data | Limit | Units | Date | |
| Chlorobenzene | BDL | 10 | ug/kg | 08/21/00 | |
| Ethylbenzene | BDL | 10 | ug/kg | 08/21/00 | |
| m/p-Xylene | BDL | 10 | ug/kg | 08/21/00 | |
| 0-Xylene | \mathtt{BDL} | 10 | ug/kg | 08/21/00 | |
| Isobutanol | BDL | 50 | ug/kg | 08/21/00 | |

Location Collected: Huntingdon Ave., Waterbury, CT

Date Sample Collected: 08/10/00 Sample Description: CC025/NMP EAS Sample Number: 00080149-15

LIMS ID Number: AB09188

Date Sample Received: 08/10/00

Client Project Number: MAC0030.RC

| Parameter | Data | Detection Limit | Units | Analysis Date |
|-----------------------------------|----------------|--------------------|---------------|------------------|
| Cyanide, Leachable | BDL | 0.15 | mg/L | 08/18/00 |
| Cyanide, Solid | BDL | 5.0 | mg/kg | 08/18/00 |
| Sulfide-Total, Solid | 40 | 10 | mg/kg | 09/05/00 |
| Arsenic, Solid | 6.1 | 2.0 | mg/kg | 08/14/00 |
| Arsenic-Low Level, Leachable | BDL | 0.005 | mg/L | 08/21/00 |
| Barium, Leachable | 0.29 | 0.005 | $m_{\rm g}/L$ | 08/17/00 |
| Barium, Solid | 60 | 0.10 | mg/kg | 08/14/00 |
| Cadmium, Leachable | BDL | 0.005 | mg/L | 08/17/00 |
| Cadmium, Solid | 3.3 | 0.10 | mg/kg | 08/14/00 |
| Chromium, Leachable | 0.046 | 0.02 | mg/L | 08/17/00 |
| Chromium, Solid | 57 | 0.40 | mg/kg | 08/14/00 |
| Copper, Leachable | 0.72 | 0.01 | mg/L | 08/17/00 |
| Copper, Solid | 180 | 0.20 | mg/kg | 08/14/00 |
| Lead, Solid | 72 | 1.0 | mg/kg | 08/14/00 |
| Lead-Low Level, Leachable | 0.019 | 0.005 | mg/L | 08/18/00 |
| Nickel, Leachable | 0.56 | 0.02 | mg/L | 08/17/00 |
| Nickel, Solid | 57 | 0.40 | mg/kg | 08/14/00 |
| Sulfide, Leachable | BDL | 1.0 | mg/L | 09/05/00 |
| Tin, Leachable | \mathtt{BDL} | 0.01 | mg/L | 08/17/00 |
| Tin, Solid | 1100 | 0.20 | mg/kg | 08/14/00 |
| Zinc, Leachable | 6.8 | 0.005 | mg/L | 08/17/00 |
| Zinc, Solid | 670 | 0.10 | mg/kg | 08/14/00 |
| BNA Extraction, Solid | Completed | 1 | | 08/17/00 |
| EP Toxicity Leaching Procedure | Completed | ł | | 08/14/00 |
| Method 8270, Solid | | | | |
| Bis (2-ethylhexyl) phthalate | \mathtt{BDL} | 330 | ug/kg | 08/25/00 |
| Benzyl Alcohol | \mathtt{BDL} | 330 | ug/kg | 08/25/00 |
| Volatile Organic Compounds, Solid | | • | | • |
| Trichlorofluoromethane | BDL | - 10 | ug/kg | 08/21/00 |
| Acetone | \mathtt{BDL} | 25 | ug/kg | 08/21/00 |
| Methylene Chloride | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| 2-Butanone | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| 1,1,1-Trichloroethane | BDL | 10 | ug/kg | 08/21/00 |
| Trichloroethene | BDL | 10 | ug/kg | 08/21/00 |
| Toluene | BDL | 10 | ug/kg | 08/21/00 |
| Tetrachoroethylene | BDL | 10 | ug/kg | 08/21/00 |

Location Collected: Huntingdon Ave., Waterbury, CT

Date Sample Collected: 08/10/00 Sample Description: CC025/NMP EAS Sample Number: 00080149-15

LIMS ID Number: AB09188
Date Sample Received: 08/10/00

| | | Analysis | | |
|---------------|------|----------|-------|----------|
| Parameter | Data | Limit | Units | Date |
| Chlorobenzene | BDL | 10 | ug/kg | 08/21/00 |
| Ethylbenzene | BDL | 10 | ug/kg | 08/21/00 |
| m/p-Xylene | BDL | 10 | ug/kg | 08/21/00 |
| 0-Xylene | BDL | 10 | ug/kg | 08/21/00 |
| Isobutanol | BDL | 50 | ug/kg | 08/21/00 |

Location Collected: Huntingdon Ave., Waterbury, CT

Date Sample Collected: 08/10/00 Sample Description: CC026/NMP EAS Sample Number: 00080149-16

LIMS ID Number: AB09189
Date Sample Received: 08/10/00
Client Project Number: MAC0030.RC

| | | Detection | | Analysis |
|-----------------------------------|----------------|-----------|--------------|----------|
| Parameter | Data | Limit | Units | Date |
| Cyanide, Leachable | \mathtt{BDL} | 0.15 | mg/L | 08/18/00 |
| Cyanide, Solid | BDL | 5.0 | mg/kg | 08/18/00 |
| Sulfide-Total, Solid | 10 | 10 | mg/kg | 09/05/00 |
| Arsenic, Solid | 5.1 | 2.0 | mg/kg | 08/14/00 |
| Arsenic-Low Level, Leachable | \mathtt{BDL} | 0.005 | mg/L | 08/21/00 |
| Barium, Leachable | 0.21 | 0.005 | mg/L | 08/17/00 |
| Barium, Solid | 110 | 0.10 | mg/kg | 08/14/00 |
| Cadmium, Leachable | \mathtt{BDL} | 0.005 | mg/L | 08/17/00 |
| Cadmium, Solid | 3.9 | 0.10 | mg/kg | 08/14/00 |
| Chromium, Leachable | 0.36 | 0.02 | mg/L | 08/17/00 |
| Chromium, Solid | 53 | 0.40 | mg/kg | 08/14/00 |
| Copper, Leachable | 0.069 | 0.01 | $_{ m mg/L}$ | 08/17/00 |
| Copper, Solid | 170 | 0.20 | mg/kg | 08/14/00 |
| Lead, Solid | 49 | 1.0 | mg/kg | 08/14/00 |
| Lead-Low Level, Leachable | BDL | 0.005 | mg/L | 08/18/00 |
| Nickel, Leachable | 0.63 | 0.02 | mg/L | 08/17/00 |
| Nickel, Solid | 51 | 0.40 | mg/kg | 08/14/00 |
| Sulfide, Leachable | BDL | 1.0 | ${ m mg/L}$ | 09/05/00 |
| Tin, Leachable | BDL | 0.01 | mg/L | 08/17/00 |
| Tin, Solid | 270 | 0.20 | mg/kg | 08/14/00 |
| Zinc, Leachable | 1.9 | 0.005 | mg/L | 08/17/00 |
| Zinc, Solid | 590 | 0.10 | mg/kg | 08/14/00 |
| BNA Extraction, Solid | Completed | i | | 08/17/00 |
| EP Toxicity Leaching Procedure | Completed | d | | 08/14/00 |
| Method 8270, Solid | | | | |
| Bis (2-ethylhexyl) phthalate | BDL | 330 | ug/kg | 08/25/00 |
| Benzyl Alcohol | \mathtt{BDL} | 330 | ug/kg | 08/25/00 |
| Volatile Organic Compounds, Solid | | | | |
| Trichlorofluoromethane | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| Acetone | \mathtt{BDL} | 25 · | ug/kg | 08/21/00 |
| Methylene Chloride | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| 2 -Butanone | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| 1,1,1-Trichloroethane | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| Trichloroethene | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| Toluene | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| Tetrachoroethylene | BDL | 10 | ug/kg | 08/21/00 |
| | | | | |

Location Collected: Huntingdon Ave., Waterbury, CT

Date Sample Collected: 08/10/00 Sample Description: CC026/NMP EAS Sample Number: 00080149-16

LIMS ID Number: AB09189 Date Sample Received: 08/10/00 Client Project Number: MAC0030.RC

| | | | Detection | Detection | | |
|---------------|---|----------------|-----------|-----------|----------|--|
| Parameter | | Data | Limit | Units | Date | |
| Chlorobenzene | | BDL | 10 | ug/kg | 08/21/00 | |
| Ethylbenzene | | BDL | 10 | ug/kg | 08/21/00 | |
| m/p-Xylene | | \mathtt{BDL} | 10 | ug/kg | 08/21/00 | |
| 0-Xylene | • | BDL | 10 | ug/kg | 08/21/00 | |
| Isobutanol | | \mathtt{BDL} | 50 | ug/kg | 08/21/00 | |

Location Collected: Huntingdon Ave., Waterbury, CT

Date Sample Collected: 08/10/00 Sample Description: CC027/NMP EAS Sample Number: 00080149-17 LIMS ID Number: AB09190

Date Sample Received: 08/10/00 Client Project Number: MAC0030.RC

| Parameter | Data | Detection Limit | Units | Analysis Date |
|-----------------------------------|----------------|--------------------|----------|------------------|
| Cyanide, Leachable | BDL | 0.15 | mg/L | 08/18/00 |
| Cyanide, Solid | BDL | 5.0 | mg/kg | 08/18/00 |
| Sulfide-Total, Solid | 320 | 10 | mg/kg | 09/05/00 |
| Arsenic, Solid | BDL | 2.0 | mg/kg | 08/14/00 |
| Arsenic-Low Level, Leachable | \mathtt{BDL} | 0.005 | mg/L | 08/21/00 |
| Barium, Leachable | 0.33 | 0.005 | mg/L | 08/17/00 |
| Barium, Solid | 50 | 0.10 | mg/kg | 08/14/00 |
| Cadmium, Leachable | \mathtt{BDL} | 0.005 | mg/L | 08/17/00 |
| Cadmium, Solid | 2.4 | 0.10 | mg/kg | 08/14/00 |
| Chromium, Leachable | 0.057 | 0.02 | mg/L | 08/17/00 |
| Chromium, Solid | 55 | 0.40 | mg/kg | 08/14/00 |
| Copper, Leachable | 0.061 | 0.01 | mg/L | 08/17/00 |
| Copper, Solid | 160 | 0.20 | mg/kg | 08/14/00 |
| Lead, Solid | 51 | 1.0 | mg/kg | 08/14/00 |
| Lead-Low Level, Leachable | 0.016 | 0.005 | mg/L | 08/18/00 |
| Nickel, Leachable | 0.61 | 0.02 | mg/L | 08/17/00 |
| Nickel, Solid | 58 | 0.40 | mg/kg | 08/14/00 |
| Sulfide, Leachable | 3.6 | 1.0 | mg/L | 09/05/00 |
| Tin, Leachable | BDL | 0.01 | mg/L | 08/17/00 |
| Tin, Solid | 90 | 0.20 | mg/kg | 08/14/00 |
| Zinc, Leachable | 5.0 | 0.005 | mg/L | 08/17/00 |
| Zinc, Solid | 620 | 0.10 | mg/kg | 08/14/00 |
| BNA Extraction, Solid | Completed | | 5 - 5 | 08/17/00 |
| EP Toxicity Leaching Procedure | Completed | | | 08/14/00 |
| Method 8270, Solid | | | | • |
| Bis (2-ethylhexyl) phthalate | 600 | 330 | ug/kg | 08/25/00 |
| Benzyl Alcohol | BDL | 330 | ug/kg | 08/25/00 |
| Volatile Organic Compounds, Solid | • | | | |
| Trichlorofluoromethane | BDL | 10 | ug/kg | 08/21/00 |
| Acetone | \mathtt{BDL} | 25 | ug/kg | 08/21/00 |
| Methylene Chloride | BDL | 10 | ug/kg | 08/21/00 |
| 2 -Butanone | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| 1, 1, 1-Trichloroethane | BDL | 10 | ug/kg | 08/21/00 |
| Trichloroethene | BDL | 10 | ug/kg | 08/21/00 |
| Toluene | BDL | 10 | ug/kg | 08/21/00 |
| Tetrachoroethylene | BDL | 10 | ug/kg | 08/21/00 |
| | | • | <u> </u> | |

Location Collected: Huntingdon Ave., Waterbury, CT

Date Sample Collected: 08/10/00 Sample Description: CC027/NMP EAS Sample Number: 00080149-17

LIMS ID Number: AB09190
Date Sample Received: 08/10/00
Client Project Number: MAC0030.RC

| | | Detection | | Analysis |
|---------------|----------------|-----------|-------|----------|
| Parameter | Data | Limit | Units | Date |
| Chlorobenzene | BDL | 10 | ug/kg | 08/21/00 |
| Ethylbenzene | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| m/p-Xylene | BDL | 10 | ug/kg | 08/21/00 |
| 0-Xylene | BDL | 10 | ug/kg | 08/21/00 |
| Isobutanol | BDL | 50 | ug/kg | 08/21/00 |

Location Collected: Huntingdon Ave., Waterbury, CT

Date Sample Collected: 08/10/00 Sample Description: CC028/NMP EAS Sample Number: 00080149-18

LIMS ID Number: AB09191 Date Sample Received: 08/10/00 Client Project Number: MAC0030.RC

| | | Detection | | Analysis |
|-----------------------------------|----------------|----------------------|-------|----------|
| Parameter | Data | Limit | Units | Date |
| Cyanide, Leachable | BDL | 0.15 | mg/L | 08/18/00 |
| Cyanide, Solid | BDL | 5.0 | mg/kg | 08/18/00 |
| Arsenic, Solid | 5.2 | 2.0 | mg/kg | 08/14/00 |
| Arsenic-Low Level, Leachable | \mathtt{BDL} | 0.005 | mg/L | 08/21/00 |
| Barium, Leachable | 0.013 | 0.005 | mg/L | 08/24/00 |
| Barium, Solid | 120 | 0.10 | mg/kg | 08/14/00 |
| Cadmium, Leachable | BDL | 0.005 | mg/L | 08/24/00 |
| Cadmium, Solid | 3.7 | 0.10 | mg/kg | 08/14/00 |
| Chromium, Leachable | 0.062 | 0.02 | mg/L | 08/24/00 |
| Chromium, Solid | 48 | 0.40 | mg/kg | 08/14/00 |
| Copper, Leachable | 0.36 | 0.01 | mg/L | 08/24/00 |
| Copper, Solid | 130 | 0.20 | mg/kg | 08/14/00 |
| Lead, Solid | 40 | 1.0 | mg/kg | 08/14/00 |
| Lead-Low Level, Leachable | 0.012 | 0.005 | mg/L | 08/18/00 |
| Nickel, Leachable | 0.12 | 0.02 | mg/L | 08/24/00 |
| Nickel, Solid | 42 | 0.40 | mg/kg | 08/14/00 |
| Sulfide, Leachable | BDL | 1.0 | mg/L | 09/05/00 |
| Tin, Leachable | BDL | 0.01 | mg/L | 08/24/00 |
| Tin, Solid | 1000 | 0.20 | mg/kg | 08/14/00 |
| Zinc, Leachable | 3.8 | 0.005 | mg/L | 08/24/00 |
| Zinc, Solid | 510 | 0.10 | mg/kg | 08/14/00 |
| BNA Extraction, Solid | Completed | ì | • | 08/17/00 |
| EP Toxicity Leaching Procedure | Completed | \mathbf{l}_{\cdot} | | 08/14/00 |
| Method 8270, Solid | | | • | • • |
| Bis (2-ethylhexyl) phthalate | 64000 | 330 | ug/kg | 08/28/00 |
| Benzyl Alcohol | BDL | 330 | ug/kg | 08/28/00 |
| Volatile Organic Compounds, Solid | | | - | • |
| Trichlorofluoromethane | BDL | 10 | ug/kg | 08/21/00 |
| Acetone | BDL | 25 | ug/kg | 08/21/00 |
| Methylene Chloride | BDL | 10 | ug/kg | 08/21/00 |
| 2 -Butanone | BDL | 10 | ug/kg | 08/21/00 |
| 1,1,1-Trichloroethane | BDL | 10 | ug/kg | 08/21/00 |
| Trichloroethene | BDL | 10 | ug/kg | 08/21/00 |
| Toluene | BDL | 10 | ug/kg | 08/21/00 |
| Tetrachoroethylene | BDL | 10 | ug/kg | 08/21/00 |
| Chlorobenzene | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| | | | | • |

Location Collected: Huntingdon Ave., Waterbury, CT

Date Sample Collected: 08/10/00 Sample Description: CC028/NMP EAS Sample Number: 00080149-18

LIMS ID Number: AB09191 Date Sample Received: 08/10/00 Client Project Number: MAC0030.RC

| . • | | Detection | | Analysis |
|--------------|----------------|-----------|-------|----------|
| Parameter | Data | Limit | Units | Date |
| Ethylbenzene | BDL | 10 | ug/kg | 08/21/00 |
| m/p-Xylene | BDL | 10 | ug/kg | 08/21/00 |
| 0-Xylene | \mathtt{BDL} | 10 | ug/kg | 08/21/00 |
| Isobutanol | BDL | 50 | ug/kg | 08/21/00 |

Location Collected: Huntingdon Ave., Waterbury, CT

Date Sample Collected: 08/10/00 Sample Description: W001/TRIP EAS Sample Number: 00080149-19

LIMS ID Number: AB09192 Date Sample Received: 08/10/00 Client Project Number: MAC0030.RC

| | | Detection | | Analysis |
|-----------------------------------|----------------|-----------|---------------|-----------|
| Parameter | Data | Limit | Units | Date |
| Cyanide, Water | BDL | 0.01 | mg/L | 08/18/00 |
| Sulfide, Water | \mathtt{BDL} | 10 | mg/L | 08/17/00 |
| Arsenic-Low Level, Water | BDL | 0.005 | mg/L | 08/21/00 |
| Barium, Water | \mathtt{BDL} | 0.005 | mg/L | 08/16/00 |
| Cadmium, Water | BDL | 0.005 | mg/L | .08/16/00 |
| Chromium, Water | \mathtt{BDL} | 0.02 | mg/L | 08/16/00 |
| Copper, Water | BDL | 0.01 | mg/L | 08/16/00 |
| Lead-Low Level, Water | BDL | 0.005 | mg/L | 08/18/00 |
| Nickel, Water | \mathtt{BDL} | 0.02 | mg/L | 08/16/00 |
| Tin, Water | \mathtt{BDL} | 0.01 | mg/L | 08/16/00 |
| Zinc, Water | \mathtt{BDL} | 0.005 | mg/L | 08/16/00 |
| BNA Extraction, Water | Complete | d | G . 1- | 08/14/00 |
| Method 8270, Water | | | | 00/1200 |
| Di-n-butylphthalate | BDL | 10 | ug/L | 08/22/00 |
| Butylbenzylphthalate | \mathtt{BDL} | 10 | ug/L | 08/22/00 |
| Bis(2-ethylhexyl)phthalate | \mathtt{BDL} | 10 | ug/L | 08/22/00 |
| Di-n-octylphthalate | \mathtt{BDL} | 10 | ug/L | 08/22/00 |
| Volatile Organic Compounds, Water | | • | | , |
| Trichlorofluoromethane | \mathtt{BDL} | 0.50 | ug/L | 08/22/00 |
| Acetone | BDL | 5.0 | ug/L | 08/22/00 |
| Methylene Chloride | BDL | 0.50 | ug/L | 08/22/00 |
| 2 -Butanone | BDL | 0.50 | ug/L | 08/22/00 |
| 1, 1, 1-Trichloroethane | \mathtt{BDL} | 0.50 | ug/L | 08/22/00 |
| Trichloroethene | \mathtt{BDL} | 0.50 | ug/L | 08/22/00 |
| 4-Methyl-2-Pentanone | \mathtt{BDL} | 0.50 | ug/L | 08/22/00 |
| Toluene | BDL | 0.50 | ug/L | 08/22/00 |
| Tetrachoroethylene | BDL | 0.50 | ug/L | 08/22/00 |
| Chlorobenzene | \mathtt{BDL} | 0.50 | ug/L | 08/22/00 |
| Ethylbenzene | BDL | 0.50 | ug/L | 08/22/00 |
| m/p-Xylene | \mathtt{BDL} | 0.50 | ug/L | 08/22/00 |
| 0-Xylene | BDL | 0.50 | ug/L | 08/22/00 |
| Isobutanol | \mathtt{BDL} | 50 | ug/L | 08/22/00 |
| 1,4-Dioxane | \mathtt{BDL} | 100 | ug/L | 08/22/00 |
| | | | <u> </u> | |

Location Collected: Huntingdon Ave., Waterbury, CT

Date Sample Collected: 08/10/00 Sample Description: W002/EQUIP EAS Sample Number: 00080149-20 LIMS ID Number: AB09193

Date Sample Received: 08/10/00 Client Project Number: MAC0030.RC

| | | Detection | | Analysis |
|-----------------------------------|----------------|-----------|--------------------------|----------|
| Parameter | Data | Limit | Units | Date |
| Cyanide, Water | BDL | 0.01 | mg/L | 08/18/00 |
| Sulfide, Water | \mathtt{BDL} | 10 | mg/L | 08/17/00 |
| Arsenic-Low Level, Water | \mathtt{BDL} | 0.005 | ${\sf mg/L}$ | 08/21/00 |
| Barium, Water | \mathtt{BDL} | 0.005 | mg/L | 08/16/00 |
| Cadmium, Water | \mathtt{BDL} | 0.005 | ${ m mg/L}$ | 08/16/00 |
| Chromium, Water | BDL | 0.02 | ${\sf mg/L}$ | 08/16/00 |
| Copper, Water | BDL | 0.01 | ${	t mg/L}$ | 08/16/00 |
| Lead-Low Level, Water | \mathtt{BDL} | 0.005 | mg/L | 08/18/00 |
| Nickel, Water | BDL | 0.02 | ${	t mg/L}$ | 08/16/00 |
| Tin, Water | BDL | 0.01 | ${ m mg/L}$ | 08/16/00 |
| Zinc, Water | \mathtt{BDL} | 0.005 | mg/L | 08/16/00 |
| BNA Extraction, Water | Completed | | | 08/14/00 |
| _Method 8270, Water | | | | |
| Di-n-butylphthalate | BDL | 10 | ug/L | 08/23/00 |
| Butylbenzylphthalate | BDL | 10 | ug/L | 08/23/00 |
| Bis(2-ethylhexyl)phthalate | BDL | 10 | ug/L | 08/23/00 |
| Di-n-octylphthalate | \mathtt{BDL} | 10 | ug/L | 08/23/00 |
| Volatile Organic Compounds, Water | | | | • |
| Trichlorofluoromethane | \mathtt{BDL} | 0.50 | ug/L | 08/22/00 |
| Acetone | BDL | 5.0 | ug/L | 08/22/00 |
| Methylene Chloride | \mathtt{BDL} | 0.50 | ug/L | 08/22/00 |
| 2 -Butanone | \mathtt{BDL} | 0.50 | ug/L | 08/22/00 |
| 1,1,1-Trichloroethane | BDL | 0.50 | ug/L | 08/22/00 |
| Trichloroethene | BDL | 0.50 | ug/L | 08/22/00 |
| 4-Methyl-2-Pentanone | \mathtt{BDL} | 0.50 | ug/L | 08/22/00 |
| Toluene | BDL | 0.50 | ug/L | 08/22/00 |
| Tetrachoroethylene | BDL | 0.50 | ug/L | 08/22/00 |
| Chlorobenzene | \mathtt{BDL} | 0.50 | ug/L | 08/22/00 |
| Ethylbenzene | \mathtt{BDL} | 0.50 | ug/L | 08/22/00 |
| m/p-Xylene | \mathtt{BDL} | 0.50 | ug/L | 08/22/00 |
| 0-Xylene | BDL | 0.50 | ug/L | 08/22/00 |
| Isobutanol | BDL | 50 | ug/L | 08/22/00 |
| 1,4-Dioxane | BDL | 100 | \mathtt{ug}/\mathtt{L} | 08/22/00 |

EAS Project Number: 00080149

Location Collected: Huntingdon Avenue, Waterbury, CT

EAS Certifications:

Connecticut Certified Laboratory Number: PH 0558

Massachusetts Certified Laboratory Number: M-CT020

Maine Certified Laboratory Number: CT 020

New Jersey Certified Laboratory Number: 46647

New York Certified Laboratory Number: 10916

Rhode Island Certified Number: 139

The enclosed analyses were conducted in accordance with:

- 1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
- 2. Clean Water Act, List of Approved Test Procedures, 40 CFR
- 3. EPA Test Methods for the Evaluation of solid Waste, SW-846, 3rd Edition, January 1998

HRP Associates, Inc. 167 New Britain Avenue Plainville, CT 06062 Phone: 860-793-6899

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Sheet

MAC 0030.20 Job Number

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| Sample I.D. | Sample Location | Container Type | Total Volume | P | reservative | | Date | Time | Sam | ple Matrix | R | emarks |
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| CC 015 | 4 | | | | | | , | 11/11 | | | | |
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| Parameters | | | | | Samp | le ID | | | | |
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| Cu mil | У | K | X | X | X | <i>Y</i> | メ | X | γ | Χ |
| Pb mil | X | X | X | X | χ | Y | メ | У | Ϋ́ | Y |
| N, mil | Υ | X | X | X. | Y | Y | × | × | Х | > |
| Sn mil | X | X | X | X | X | Y | X | × | × | X |
| Zn mil | | χ | X | χ· | X | X | X | × | × | X |
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L' LEACHATE BY EP TOXICITY M: MASS ANALYSIS P - Plastic A - Amber T - TCLP Analysis M - Mass Analysis S - SPLP Analysis G - Glass

Abbreviations:

HRP Associates, Inc. 167 New Britain Avenue Plainville, CT 06062

HRP

Sheet Z of U

Job Number

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| Name & Address of La | boratory: | CAS | CARS | MID | DUFBU | 14,0 | T- 1 | | | | |
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| Remarks: | | | | | | | | | | | |

№ 11956

P - Plastic

L=LEACHATE

A - Amber

M - Mass Analysis

EP TOXICILY

T - TCLP Analysis

G - Glass

Abbreviations:

S - SPLP Analysis

HRP Associates, Inc. 167 New Britain Avenue Plainville, CT 06062

HRP

Sheet 3 of 4

Phone: 860-793-6899 ⁷ax: 860-793-6871

CHAIN OF CUSTODY

Job Number MAC 0030. EC EDM **Project Manager**

| Place & Addr | ess of Collection | MAC DE | ZMID, | Inc | Sampler | s Name (Signa | <i>/</i>) . | 7 |
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| Sample I.D. | Sample Location | Container Type | Total Volume | Preservative | Date | Time | Sample Matrix | Remarks |
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| WOOZ | COUP | 11 | *1 | 4 " | Ÿ | -7 j yes | WATER | BLA-K |
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| Parameters | C | | | | Samp | ole 10 | | | | |
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| Cd mil | X | Χ | Х | X | · X | У | X | Υ | χ | y |
| Cr - mil | χ | Y | X | X | γ. | . y | X | У | γ | 4 |
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| Abbreviations: G - | Glass P | - Plastic | | T - TCLI | Analysis | M - Mass | Analysis | S - SPLP An | alysis | • |

№ 11955

HRP Associates, Inc. 167 New Britain Avenue Plainville, CT 06062

HRP

Job Number

MAC 0030.20

Sheet

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| Phone: | | 793-68 3-687 | | | (| CHAIN OF | CUST | ODY | Project | Manager | RD | M |
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Abbreviations:

G - Glass

P - Plastic

T - TCLP Analysis

A - Amber

M - Mass Analysis

S - SPLP Analysis

APPENDIX K

October 3, 2000 Sampling Results

e\rdm\m\rcra closure summary

HRP

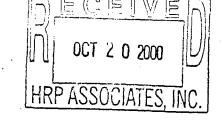
Associates 2



October 17, 2000

MACDERMID, INC. 245 Freight Street Waterbury, CT 06702

Attention: Mr. Greg Strong



EAS Project Number: 00100036

Location Collected: MacDermid, Huntingdon Ave, Waterbury

Copies of this report and the supporting computer stored data are retained in our files in the event they are required for future reference.

Any sample submitted to our laboratory will be retained for a maximum of thirty (30) days from receipt of the report.

All analytical data, unless otherwise specified, is reported on a wet weight (as received) basis.

Our laboratory is a multi-state Certified Public Health Laboratory, offering a full range of analytical services that include:

Water and Wastewater Analysis
-Hazardous Waste Analysis (RCRA)
Full Priority Pollutant Analysis
Drinking Water Analysis

Laboratory Director

end

Location Collected: MacDermid, Huntingdon Ave, Waterbury

Date Sample Collected: 10/03/00

Sample Description: CC029/NMP Room EAS Sample Number: 00100036-01

LIMS ID Number: AB11556
Date Sample Received: 10/03/00
Client Project Number: MAC0030.RC

| | | Detection | | Analysis |
|--------------------------------|-----------|-----------|-------------|----------|
| Parameter | Data | Limit | Units | Date |
| Chromium, Leachable | 0.04 | 0.02 | mg/L | 10/09/00 |
| Nickel, Leachable | 0.46 | 0.02 | ${ m mg/L}$ | 10/09/00 |
| Zinc, Leachable | 4.7 | 0.005 | mg/L | 10/09/00 |
| BNA Extraction, Leachable | Complete | d | | 10/06/00 |
| EP Toxicity Leaching Procedure | Completed | d · | | 10/03/00 |
| Method 8270, Leachable | | | | |
| Bis(2-ethylhexyl)phthalate | BDL | 10 | ug/L | 10/11/00 |

Location Collected: MacDermid, Huntingdon Ave, Waterbury

Date Sample Collected: 10/03/00

Sample Description: CC030/NMP Room EAS Sample Number: 00100036-02

LIMS ID Number: AB11557

Date Sample Received: 10/03/00

Client Project Number: MAC0030.RC

| | | Detection | | Analysis |
|--------------------------------|----------------|-----------|-------------|-------------|
| Parameter | Data | Limit | Units | <u>Date</u> |
| Chromium, Leachable | 0.053 | 0.02 | ${ m mg/L}$ | 10/09/00 |
| Nickel, Leachable | 0.036 | 0.02 | mg/L | 10/09/00 |
| Zinc, Leachable | 0.41 | 0.005 | ${ m mg/L}$ | 10/09/00 |
| BNA Extraction, Leachable | Completed | l | | 10/06/00 |
| EP Toxicity Leaching Procedure | Completed | l | | 10/03/00 |
| Method 8270, Leachable | | | | |
| Bis(2-ethylhexyl)phthalate | \mathtt{BDL} | 10 | ug/L | 10/11/00 |

Location Collected: MacDermid, Huntingdon Ave, Waterbury

➤ Date Sample Collected: 10/03/00

Sample Description: CC031/NMP Room EAS Sample Number: 00100036-03

LIMS ID Number: AB11558
Date Sample Received: 10/03/00
Client Project Number: MAC0030.RC

| | | Detection | | Analysis |
|--------------------------------|----------------|-----------|-------------|----------|
| Parameter | Data | Limit | Units | Date |
| Chromium, Leachable | BDL | 0.02 | mg/L | 10/09/00 |
| Nickel, Leachable | 0.38 | 0.02 | ${	t mg/L}$ | 10/09/00 |
| Zinc, Leachable | 2.1 | 0.005 | ${ m mg/L}$ | 10/09/00 |
| BNA Extraction, Leachable | Completed | | | 10/06/00 |
| EP Toxicity Leaching Procedure | Completed | | | 10/03/00 |
| Method 8270, Leachable | | | | |
| Bis(2-ethylhexyl)phthalate | \mathtt{BDL} | 10 | ug/L | 10/11/00 |

Location Collected: MacDermid, Huntingdon Ave, Waterbury

___Date Sample Collected: 10/03/00

Sample Description: CC032/NMP Room EAS Sample Number: 00100036-04

LIMS ID Number: AB11559
Date Sample Received: 10/03/00
Client Project Number: MAC0030.RC

| Parameter | Data | Detection Limit | Units | Analysis Date |
|--------------------------------|----------------|--------------------|-------|------------------|
| Chromium, Leachable | 0.37 | 0.02 | mg/L | 10/09/00 |
| Nickel, Leachable | 0.29 | 0.02 | mg/L | 10/09/00 |
| Zinc, Leachable | 5.2 | 0.005 | mg/L | 10/09/00 |
| BNA Extraction, Leachable | Completed | ŀ | | 10/06/00 |
| EP Toxicity Leaching Procedure | Completed | ł | | 10/03/00 |
| Method 8270, Leachable | | | | |
| Bis(2-ethylhexyl)phthalate | \mathtt{BDL} | 10 | ug/L | 10/11/00 |

Location Collected: MacDermid, Huntingdon Ave, Waterbury

Date Sample Collected: 10/03/00

Sample Description: CC033/NMP Room EAS Sample Number: 00100036-05

LIMS ID Number: AB11560
Date Sample Received: 10/03/00
Client Project Number: MAC0030.RC

| Parameter | Data | Detection <u>Limit</u> | Units | Analysis Date |
|--------------------------------|----------------|---------------------------|-------|------------------|
| Chromium, Leachable | 0.37 | 0.02 | mg/L | 10/09/00 |
| Nickel, Leachable | 0.18 | 0.02 | mg/L | 10/09/00 |
| Zinc, Leachable | 2.5 | 0.005 | mg/L | 10/09/00 |
| BNA Extraction, Leachable | Completed | i | | 10/10/00 |
| EP Toxicity Leaching Procedure | Completed | i | | 10/03/00 |
| Method 8270, Leachable | | | | |
| Bis(2-ethylhexyl)phthalate | \mathtt{BDL} | 10 | ug/L | 10/11/00 |

: MacDermid, Huntingdon Ave, Waterbury

cted: 10/03/00

n: CC034/NMP Room ber: 00100036-06

AB11561 ived: 10/03/00

nber: MAC0030.RC

| • . | Analysis | | | Detection | | Analysis |
|------|----------|---------------------------------------|----------------|-----------|-------------|----------|
| uits | Date | | Data | Limit | Units | Date |
| ţ/L | 10/09/00 | able | 0.069 | 0.02 | ${f mg/L}$ | 10/09/00 |
| ţ/L | 10/09/00 | | 0.40 | 0.02 | mg/ $ m L$ | 10/09/00 |
| ţ/L | 10/09/00 | · · · · · · · · · · · · · · · · · · · | 4.0 | 0.005 | ${ m mg/L}$ | 10/09/00 |
| | 10/10/00 | ∠eachable | Completed | | | 10/10/00 |
| | 10/03/00 | ing Procedure | Completed | | | 10/03/00 |
| | | chable | | | | |
| ·/L | 10/11/00 | l)phthalate | \mathtt{BDL} | 10 | ug/L | 10/11/00 |

Location Collected: MacDermid, Huntingdon Ave, Waterbury

Date Sample Collected: 10/03/00

Sample Description: CC034/NMP Room EAS Sample Number: 00100036-06

LIMS ID Number: AB11561
Date Sample Received: 10/03/00
Client Project Number: MAC0030.RC

| | | Detection | • | Analysis |
|--------------------------------|-----------|-----------|-------------|----------|
| Parameter | Data | Limit | Units | Date |
| Chromium, Leachable | 0.069 | 0.02 | mg/L | 10/09/00 |
| Nickel, Leachable | 0.40 | 0.02 | ${ m mg/L}$ | 10/09/00 |
| Zinc, Leachable | 4.0 | 0.005 | ${ m mg/L}$ | 10/09/00 |
| BNA Extraction, Leachable | Completed | | • | 10/10/00 |
| EP Toxicity Leaching Procedure | Completed | | | 10/03/00 |
| Method 8270, Leachable | | | | |
| Bis(2-ethylhexyl)phthalate | BDL | 10 | ug/L | 10/11/00 |

Location Collected: MacDermid, Huntingdon Ave, Waterbury

Date Sample Collected: 10/03/00

Sample Description: CC035/NMP Room EAS Sample Number: 00100036-07

LIMS ID Number: AB11562
Date Sample Received: 10/03/00
Client Project Number: MAC0030.RC

| Parameter | Data | Detection Limit | Units | Analysis Date |
|--------------------------------|-----------|--------------------|-------------|------------------|
| Chromium, Leachable | 0.15 | 0.02 | mg/L | 10/09/00 |
| Nickel, Leachable | 0.48 | 0.02 | ${	t mg/L}$ | 10/09/00 |
| Zinc, Leachable | 4.1 | 0.005 | mg/L | 10/09/00 |
| BNA Extraction, Leachable | Completed | l _, | | 10/10/00 |
| EP Toxicity Leaching Procedure | Completed | l | | 10/03/00 |
| Method 8270, Leachable | | | | |
| Bis(2-ethylhexyl)phthalate | BDL | 10 | ug/L | 10/11/00 |

Location Collected: MacDermid, Huntingdon Ave, Waterbury

Date Sample Collected: 10/03/00

Sample Description: CC036/NMP Room EAS Sample Number: 00100036-08

LIMS ID Number: AB11563
Date Sample Received: 10/03/00
Client Project Number: MAC0030.RC

| | | Detection | | Analysis |
|--------------------------------|----------------|-----------|--------------|-------------|
| Parameter | Data | Limit | Units | <u>Date</u> |
| Chromium, Leachable | 0.11 | 0.02 | mg/L | 10/09/00 |
| Nickel, Leachable | 0.49 | 0.02 | ${ m mg/L}$ | 10/09/00 |
| Zinc, Leachable | 4.6 | 0.005 | ${\sf mg/L}$ | 10/09/00 |
| BNA Extraction, Leachable | Complete | d | | 10/10/00 |
| EP Toxicity Leaching Procedure | Complete | d | | 10/03/00 |
| Method 8270, Leachable | | | | |
| Bis(2-ethylhexyl)phthalate | \mathtt{BDL} | 10 | ug/L | 10/11/00 |

Location Collected: MacDermid, Huntingdon Ave, Waterbury

Date Sample Collected: 10/03/00

Sample Description: CC037/NMP Room EAS Sample Number: 00100036-09

LIMS ID Number: AB11564
Date Sample Received: 10/03/00
Client Project Number: MAC0030.RC

| D | D 1 | Detection | TT 1. | Analysis |
|--------------------------------|-------------|-----------|--------------|-------------|
| Parameter | <u>Data</u> | Limit | <u>Units</u> | <u>Date</u> |
| Chromium, Leachable | 0.13 | 0.02 | mg/L | 10/09/00 |
| Nickel, Leachable | 0.031 | 0.02 | ${ m mg/L}$ | 10/09/00 |
| Zinc, Leachable | 0.013 | 0.005 | ${ m mg/L}$ | 10/09/00 |
| BNA Extraction, Leachable | Completed | | | 10/10/00 |
| EP Toxicity Leaching Procedure | Completed | | | 10/03/00 |
| Method 8270, Leachable | | | | |
| Bis(2-ethylhexyl)phthalate | BDL | 10 | ug/L | 10/11/00 |

Location Collected: MacDermid, Huntingdon Ave, Waterbury

Date Sample Collected: 10/03/00

Sample Description: W001/Trip Blank
EAS Sample Number: 00100036-10

LIMS ID Number: AB11565
Date Sample Received: 10/03/00
Client Project Number: MAC0030.RC

| Parameter | Data | Detection Limit | Units | Analysis Date |
|--|--------------------|--------------------|--------------|----------------------|
| Chromium, Water Nickel, Water | BDL BDL | 0.02 0.02 | mg/L mg/L | 10/09/00 10/09/00 |
| Zinc, Water BNA Extraction, Water Mathed 8870, Water | 0.011 Completed | 0.005 | ${ m mg/L}$ | 10/09/00 10/06/00 |
| Method 8270, Water Bis(2-ethylhexyl)phthalate | BDL | 10 | ug/L | 10/11/00 |

Location Collected: MacDermid, Huntingdon Ave, Waterbury

Date Sample Collected: 10/03/00

Sample Description: W002/Equip. Blank EAS Sample Number: 00100036-11

LIMS ID Number: AB11566
Date Sample Received: 10/03/00
Client Project Number: MAC0030.RC

| Parameter | Data | Detection <u>Limit</u> | Units | Analysis <u>Date</u> |
|----------------------------|----------|---------------------------|-------------|-------------------------|
| Chromium, Water | BDL | 0.02 | mg/L | 10/09/00 |
| Nickel, Water | BDL | 0.02 | ${ m mg/L}$ | 10/09/00 |
| Zinc, Water | 0.012 | 0.005 | mg/L | 10/09/00 |
| BNA Extraction, Water | Complete | d | | 10/06/00 |
| Method 8270, Water | | | | |
| Bis(2-ethylhexyl)phthalate | BDL | 10 | ug/L | 10/11/00 |

EAS Project Number: 00100036

Location Collected: MacDermid, Huntingdon Ave, Waterbury

EAS Certifications:

Connecticut Certified Laboratory Number: PH 0558

Massachusetts Certified Laboratory Number: M-CT020

Maine Certified Laboratory Number: CT 020

New Jersey Certified Laboratory Number: 46647

New York Certified Laboratory Number: 10916

Rhode Island Certified Number: 139

The enclosed analyses were conducted in accordance with:

- 1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
- 2. Clean Water Act, List of Approved Test Procedures, 40 CFR
- 3. EPA Test Methods for the Evaluation of solid Waste, SW-846, 3rd Edition, January 1998

Sheet HRP Associates, Inc. **HRP** of 167 New Britain Avenue Job Number MAC UDZO. PC Plainville, CT 06062 Phone: 860-793-6899 CHAIN OF CUSTODY RDM Fax: 860-793-6871 Project Manager MAC DE EMIN Place & Address of Collection 1-0 Samplers Name (Signature) HUNTINGDON MATERBUT Sample (.D. Container Sample Location Total Preservative Date Time Sample Matrix Remarks CC 029 NMP Rom 802 10/3/00 CODL CONCRETE CC03D CC031 CL037 CC 033 CC034 CC 035 CE 036 CG037 W TRIP BLANK WATE Received By (Signature) Relinquished By (Signature) Date // Time Received By (Signature) Relinquished By (Signature) Date Time (ARS) Name & Address of Laboratory: COMMERCIAL EAS WATERTOWN Sample ID Parameters CC 079 CC 030 CC 031 CL 035 CC032 CL033 CL034 66036 C6037 WOOI LOOUL X X X CHEDMIUM-L X K. ZINC - L ķ X У X X X NICKEL - 1 X X X Χ BIS (Z-ETHYL-HEXYL) PATHAM Remarks: LEACHATE BY CP JOXICITY HAP CONTACT: MILE CHENOWELL P - Plastic - A - Amber T - TCLP Analysis M - Mass Analysis S - SPLP Analysis Abbreviations:

Date: March 16, 2001 Rev. No. 0

APPENDIX N

DECEMBER 5, 2000 GEAR STREET SUMP SPILL REPORT

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HRP

Associates. Inc.



79 Elm Street Hartford, CT 06106-5127 http://dep.state.ct.us

3ureau of Waste Management

Oil and Chemical Spill Response Division

REPORT OF PETROLEUM OR CHEMICAL PRODUCT DISCHARGE, SPILLAGE OR RELEASE

| 1. | When did the incident occur? Date 12 /05 /2000 Time 3:30 PM (approximately) month/day/year |
|------------|--|
| 2. | Where did the incident occur? The incident occurred at MacDermid's facility located at |
| | 526 Huntingdon Avenue, Waterbury, CT. |
| 3. | How did the incident occur? (Describe the cause) During routine maintenance and inspection of a |
| | concrete wastewater collection sump, a hole approximately four (4) inches in diameter was discovered at the bottom of the sump. It is unclear what actually caused the hole to |
| 1 . | develop: Under whose control was the chemical or petroleum product at the time of the incident? |
| | MacDermid, Inc. |
| | Mailing & street address: |
| | Waterham 06702 |
| | Town: Waterbury State: CT Zip: 06702 Telephone: (203) 575-5703 |
| 5. | Who is the owner of the property onto which the spill occurred? |
| | MacDermid, Inc. |
| | If this is a corporate property or property owned jointly, who is the represents the owner? |
| | Corporate property ☑ Property owned jointly ☐ |
| | Name: |
| | Mailing & street address: |
| | Town: State: Zip: Telephone: |
| 6. | When was the incident verbally reported to the Department of Environmental Protection? |
| | Date 12 / 06 / 2000 Time 2:00 PM month/day/year |



79 Elm Street
Hartford, CT 06106-5127
http://dep.state.ct.us

| | Name: Gregory J. Strong on behalf of MacDermid, Inc. |
|---|--|
| | Mailing & street address: |
| | Town: Waterbury State: CT Zip: 06702 Telephone: (203) 575-5703 |
| | What were the chemicals or petroleum products released, spilled or discharged? Give an exact description of each of the materials involved in the incident, including the chemical names, percent concentrations, trade names, etc. |
| | If the chemicals are Extremely Hazardous substances or CERCLA hazardous substances they must be identified as such and include the reportable quantity (RQ). Please attach a Material Safety Date Sheet (MSDS) for each chemical involved |
| | What were the quantities of chemicals that were released, spilled or discharged to each environmental medium (air, surface water, soil, ground water)? [NOTE: Connecticut General Statutes requires the reporting of any amount of any substance or material released to the environment]. |
| | An unknown volume of process industrial wastewater was released. |
| 3 | |
| | |
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| | |
| | |
| | |
| | |
| | Did any of the chemical(s) travel beyond the property line? [NOTE: Materials that enter the ground water are considered have gone beyond the property line.] |
| | While unknown, based upon conditions at the site, MacDermid believes |
| | that none of the material associated with this incident flowed beyond our |
| | property line. |



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| · |
|---|
| What actions were taken to respond to and contain the release, spill or discharge? |
| The piping which directed the process wastewater into this sump has been cut and |
| re-routed directly into a larger collection sump. This larger collection sump |
| has been used as the intermediary treatment step after the wastewater collection |
| sump at issue. The larger sump was visually inspected by MacDermid personnel and no |
| defects or irregularities were observed. |
| |
| What actions are being taken to prevent reoccurrence of an incident of this type? (Attach additional sheets if |
| necessary) As noted above, MacDermid has terminated the use of this wastewater collection sump. |
| In addition, MacDermid will inspect other wastewater collection sumps in this |
| facility for damage or defects. |
| |
| |
| |
| Were there any injuries as a result of the incident? If so, list the names of exposed individuals, their addresses, phone numbers and describe their injuries. (Attach additional sheets if necessary) N/A |
| Name:N/A |
| Malling & street address: |
| Town: State: Zip: Telephone: |
| What is the appropriate advice regarding medical attention necessary for exposed individuals? |
| |
| , |
| |
| |



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| MacDermid is unaware of any known or anticipated health risks, accute or chronic, | | | | |
|---|--|-------------------------------|--|--|
| associated with this releas | e. | | | |
| | | | | |
| Was the incident completely cleaned up by the time this report was submitted? If not, what are the anticipated remedial actions and their duration? The sump was drained of any wastewater. | | | | |
| | and analyze soil adjacent to the | | | |
| CERTIFICATION: I hereby affirm that the | he foregoing statement is true to the best of | my knowledge. | | |
| Kythy | he foregoing statement is true to the best of | | | |
| Signature Signature | he foregoing statement is true to the best of | Date | | |
| Kythy | he foregoing statement is true to the best of | irs 12/06/00 | | |
| Gregory J. Strong Print Name | he foregoing statement is true to the best of | Date (203) 575-5703 | | |
| ignature Gregory J. Strong | he foregoing statement is true to the best of Manager of Regulatory Affa Title | Date (203) 575-5703 Telephone | | |

State of Connecticut Department of Environmental Protection **Bureau of Waste Management** Oil and Chemical Spill Response Division 79 Elm Street Hartford, CT 06106-5127

Telephone: Routine Calls

(860)424-3024

Emergency 24 hours (860)424-3338